Atlantic Richfield Company

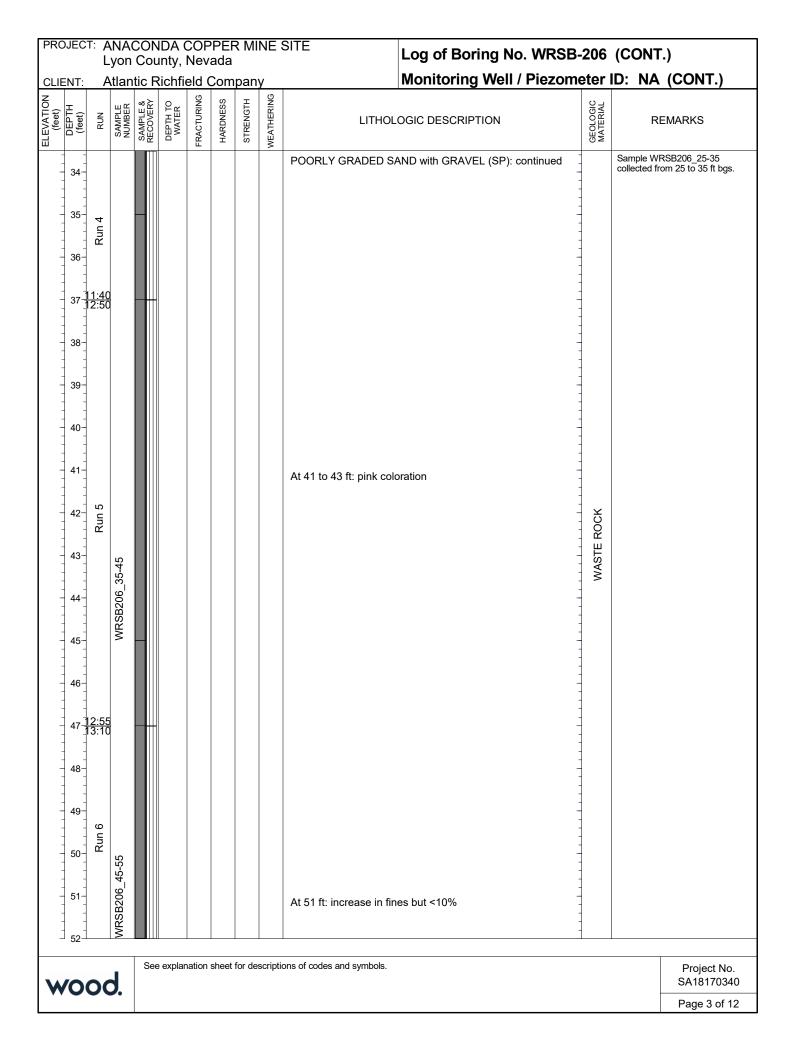


Appendix 5C

OU-5 South WRA 2019-2020 Borehole Logs and Borehole Elevations

PROJECT: ANA	CONDA COF County, Nev		INE	SITE	Log of Boring	No. V	WRSB-206
•	tic Richfield		١V		Monitoring We	ell / P	iezometer ID: NA
BORING LOCATIO				ste Rock Area)	ELEVATION (feet) NA	NORTH	
DRILLING CONTR	ACTOR: Casc	ade Drill	ling,	L.P.	DATE STARTED: 1/21/2020	133002	DATE FINISHED: 1/27/2020
DRILLING EQUIPA				uck-mounted rig	TOTAL DEPTH (feet)):	MEASURING POINT:
DRILLING METHO			<u> </u>	<u></u>	202.0 DEPTH TO WATER	(FIRST	Ground surface / COMPLETION):
SAMPLING METHO		6" sonic	0050	harrol	NA / NA SCREEN INTERVAL	(feet):	TOC ELEVATION (feet):
SAMPLING METH			core	в рапеі	NA LOGGED BY:		NA REVIEWED BY:
BOREHOLE DIAM		-202')	(D		B. Johnson		J. Klein
Clear Clea	SAMPLE 8 RECOVERY REACTURING REA	HARDNESS STRENGTH	WEATHERING	POORLY GRADED SAND with GRA brown (10YR 5/4), dry, ~60% fine to subangular gravel (up to 2 inches in loose, weak cementation, no reaction	VEL (SP): yellowish coarse sand, ~35% diameter), ~5% fines,	WASTE ROCK MATERIAL MATERIAL	REMARKS Sample WRSB206_0-0.5 collected from 0 to 0.5 ft bgs.
wood.	See explanation	sheet for de	escripti	ons of codes and symbols.		1	Project No. SA18170340
*********							Page 1 of 12

PROJEC					IDA (inty,				NE	Log of Boring No. WRSB	-206	(CONT.)
CLIENT		Atla	nt	ic R	chfi	eld (Com	pan	У	Monitoring Well / Piezom	eter	ID: NA (CONT.)
ELEVATION (feet) DEPTH (feet)	RUN	SAMPLE	NUMBER	SAMPLE & RECOVERY	DEPTH TO WATER	FRACTURING	HARDNESS	STRENGTH	WEATHERING	LITHOLOGIC DESCRIPTION	GEOLOGIC MATERIAL	REMARKS
-	-									POORLY GRADED SAND with GRAVEL (SP): continued		
- - 16	Run 2										- - - - - -	
- - 17-	10:5 11:2	<u>2</u> 5									- - - -	
18	,= - - -										-	
19											- - - -	
- 20- -	- - - -									SILTY SAND with GRAVEL (SM): pink (5YR 7/4), dry,	- - - - -	
- 21-	- - - -									~45% fine to coarse sand, ~35% subangular gravel (up to 2.5 inches in diameter), ~20% low plasticity fines, loose, weak cementation, no reaction with HCl	- - - -	
- 22	Run 3									At 22.5 ft: boulder	- - - - -	
23	-	6 15-25								POORLY GRADED SAND with GRAVEL (SP): pink (5YR 7/4), dry, ~60% fine to coarse sand, ~35% subangular gravel (up to 2 inches in diameter), ~5% fines, loose, weak cementation, no reaction with HCl	OCK	
- 24 - 25		WRSB206 15-25								At 24 ft: yellowish brown (10YR 5/4)	WASTE ROCK	
- 27·	11:2 11:5	<u>8</u> 3									- - - -	
- - 28	- - - - -										- - - -	
- 29	- - - -											
30	_ V										- - -	
31-	Run											
32		6 25-35									-	
- - 33·	- - - -	WRSB206									-	
wo				See	explar	nation	sheet	for de	scripti	ons of codes and symbols.		Project No. SA18170340
7,0												Page 2 of 12

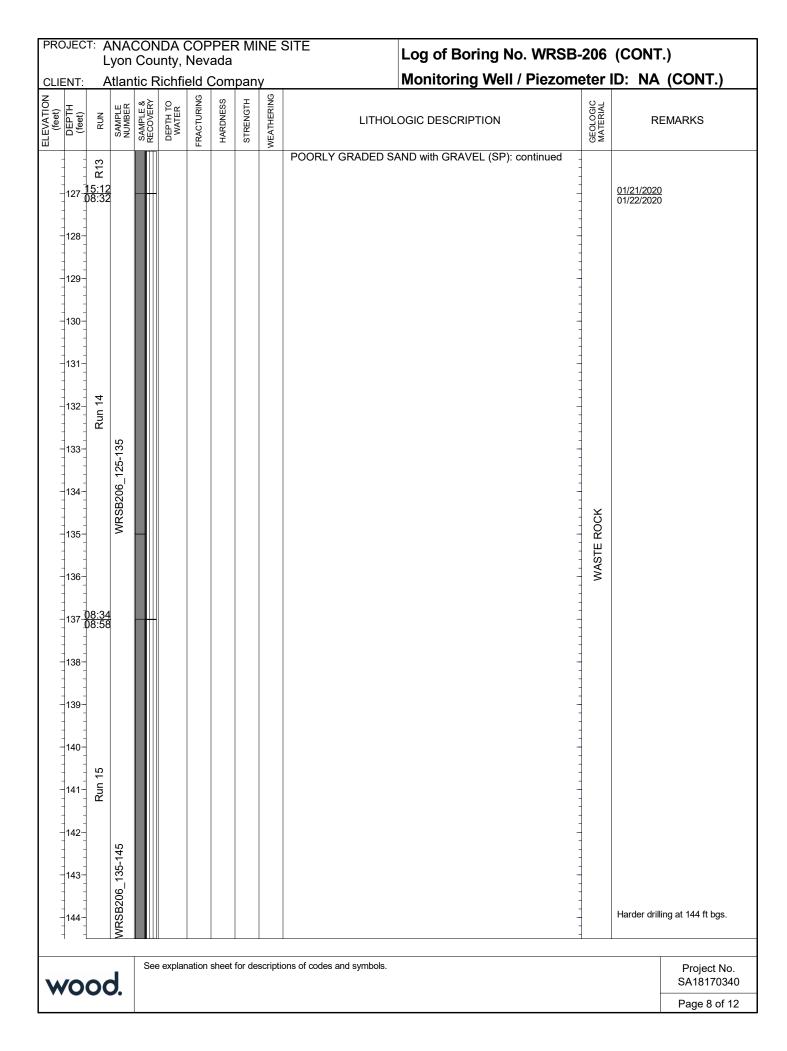


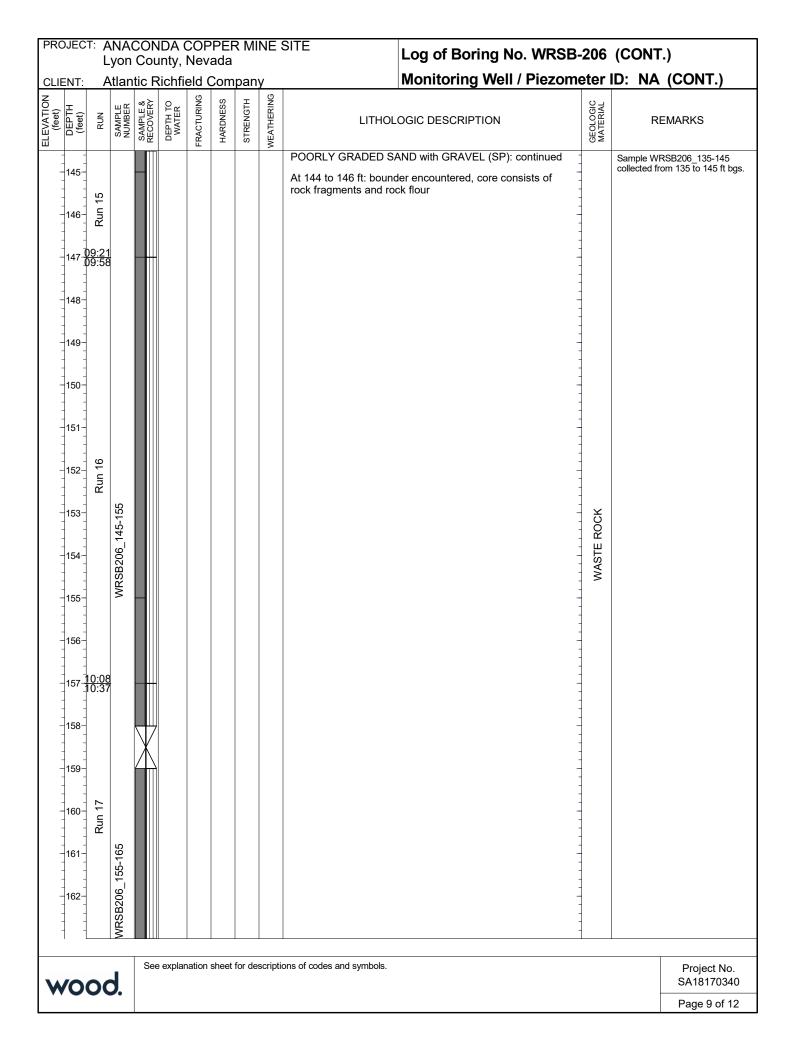
PROJECT: ANACONDA COPPER MINE SITE Log of Boring No. WRSB-206 (CONT.) Lyon County, Nevada Monitoring Well / Piezometer ID: NA (CONT.) Atlantic Richfield Company CLIENT: ELEVATION (feet) DEPTH (feet) WEATHERING FRACTURING SAMPLE & RECOVERY DEPTH TO WATER GEOLOGIC MATERIAL HARDNESS STRENGTH SAMPLE NUMBER RUN LITHOLOGIC DESCRIPTION **REMARKS** POORLY GRADED SAND with GRAVEL (SP): continued 53-WRSB206 45-55 54-Run 6 55-56-57 13:15 13:21 58-59-60-WASTE ROCK 61 62-63-WRSB206 55-65 64-65-At 65 ft: increase in iron oxide content 66-67 13:27 13:41 68-65-75 69-WRSB206 70-See explanation sheet for descriptions of codes and symbols. Project No. wood. SA18170340 Page 4 of 12

PROJECT: ANA Lyor	CONDA COPPER MINE County, Nevada	Log of Boring No. WKSB-206 (CON)	
	tic Richfield Company	Monitoring Well / Piezometer ID: NA	(CONT.)
(feet) DEPTH (feet) (feet) RUN SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER FRACTURING HARDNESS STRENGTH WEATHERING	LITHOLOGIC DESCRIPTION RATERIAL R R R R R R R R R R R R R	EMARKS
Run 10	Name	POORLY GRADED SAND with GRAVEL (SP): continued B B B B B B B B B	
wood.	See explanation sheet for descrip	ions of codes and symbols.	Project No. SA18170340 Page 5 of 12

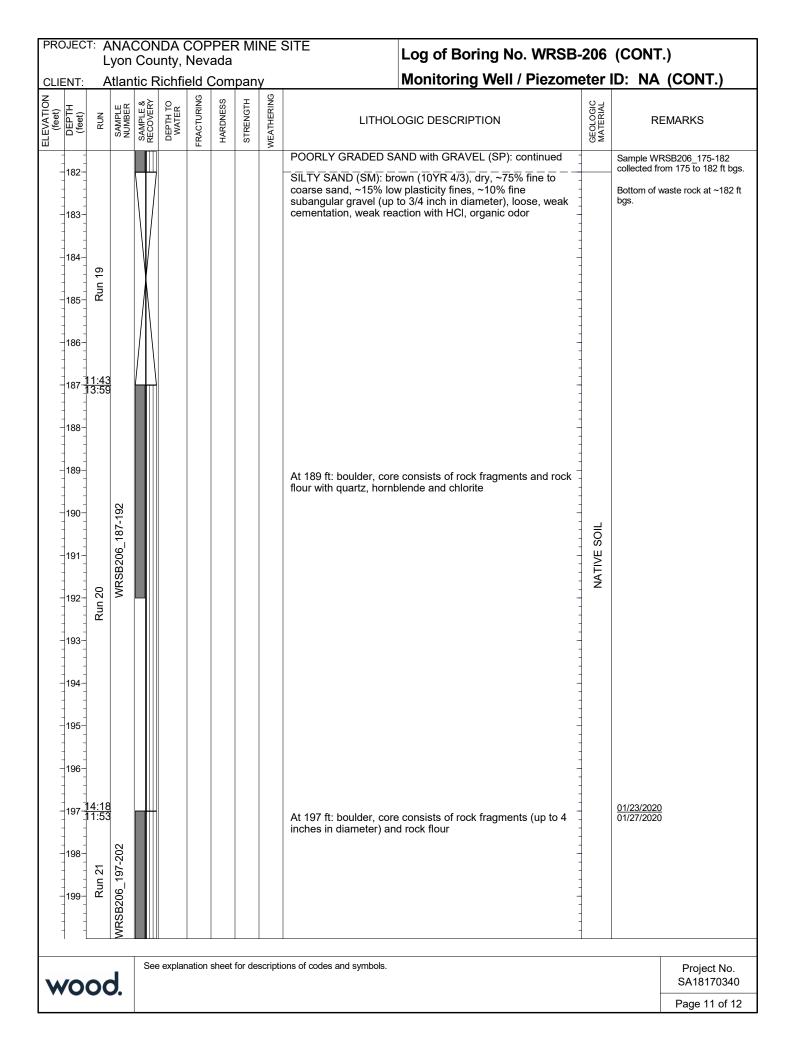
PROJECT: ANACONDA COPPER MINE SITE Log of Boring No. WRSB-206 (CONT.) Lyon County, Nevada Monitoring Well / Piezometer ID: NA (CONT.) Atlantic Richfield Company CLIENT: ELEVATION (feet) DEPTH (feet) WEATHERING FRACTURING SAMPLE & RECOVERY DEPTH TO WATER STRENGTH GEOLOGIC MATERIAL HARDNESS SAMPLE NUMBER LITHOLOGIC DESCRIPTION **REMARKS** POORLY GRADED SAND with GRAVEL (SP): continued 90-91 92-93-85-95 WRSB206 94 95-At 95 ft: cobbles (up to 6 inches) 96-97 14:16 14:25 WASTE ROCK 98-99-100-101 102-103-WRSB206_95-105 104-105-WRSB206 105-115 106-See explanation sheet for descriptions of codes and symbols. Project No. wood. SA18170340 Page 6 of 12

PROJECT: ANA(Lyon	CONDA CO County, N		RMINE	Log of Boring No. WRSB	-206	(CONT.)
CLIENT: Atlant	tic Richfiel	d Comp	pany	Monitoring Well / Piezom	eter l	ID: NA (CONT.)
ELEVATION (feet) DEPTH (feet) RUN SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER	FRACTURING	STRENGTH	LITHOLOGIC DESCRIPTION	GEOLOGIC MATERIAL	REMARKS
-110- -111- -111- -111- -111- -111- -1115- -1115- -1115- -1115-		芷 十		POORLY GRADED SAND with GRAVEL (SP): continued		
117-14-51 -118- -119- -120- -121- -121- -122- -123- -124- -125- -125-				At 120 ft: color change to brown (10YR 4/3), decrease in fines content to ~5%	WASTE ROCK	Sample WRSB206_125-135 collected from 125 to 135 ft bgs.
wood.	See explanati	tion sheet f	for descripti	ons of codes and symbols.		Project No. SA18170340 Page 7 of 12



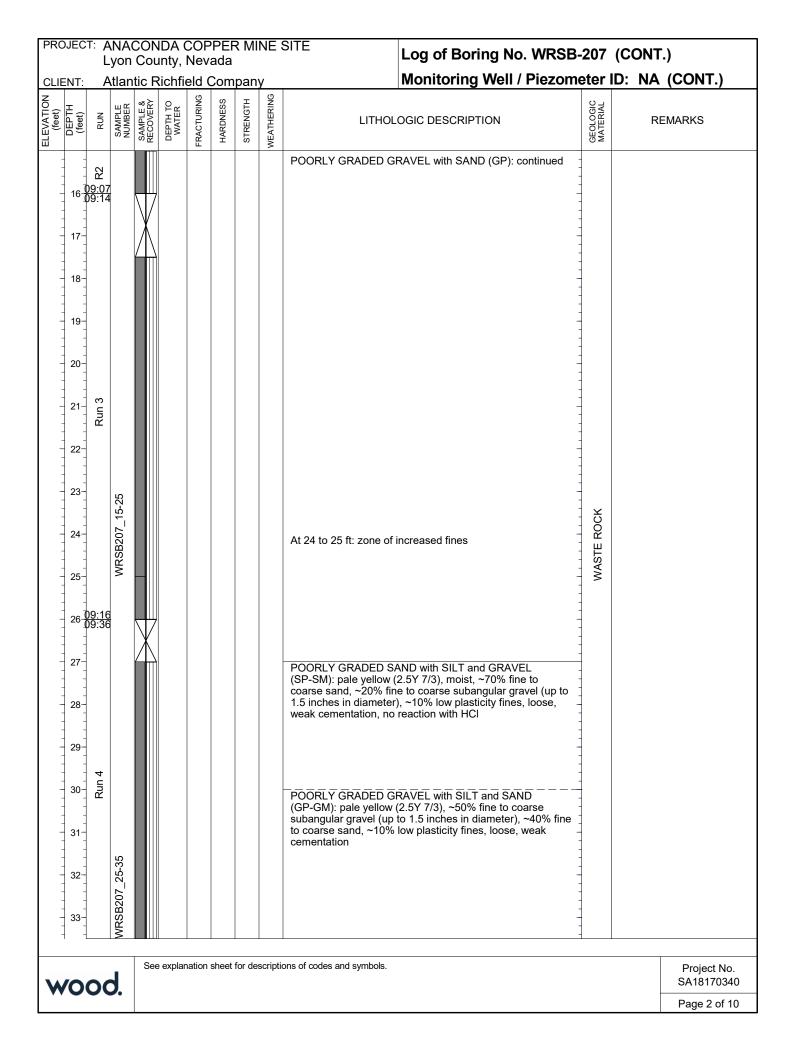


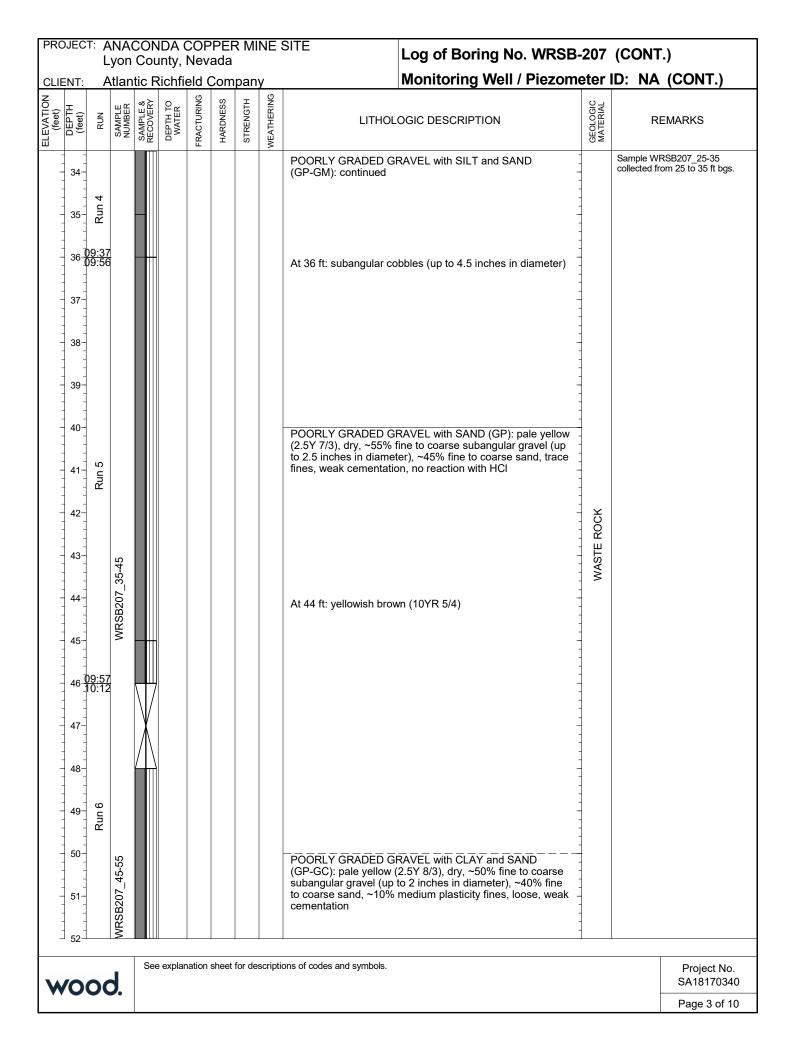
PROJECT: ANA Lyon	CONDA CO County, Ne		IE SITE	Log of Boring No. WRSB-	206	(CONT.)
CLIENT: Atlan	itic Richfield		,	Monitoring Well / Piezome	eter l	ID: NA	(CONT.)
(feet) DEPTH (feet) Run SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER FRACTILING	HARDNESS STRENGTH	WEATHERING	LITHOLOGIC DESCRIPTION	GEOLOGIC MATERIAL	RE	MARKS
164 165 166 167 177 178 178 178 178 178 178 178 178 17				ORLY GRADED SAND with GRAVEL (SP): continued	WASTE ROCK		
-175- -176- -177- -178- -179- -180- -180- -181- -181- -181- -181- -181- -181- -181- -181- -181- -181-			and I	76 ft: boulder, core consists of granitic rock fragments rock flour 80 to 182 ft: boulder, core consists of rock fragments (6 es in diameter) and rock flour		01/22/2020 01/23/2020	
wood.	See explanation	on sheet for des	criptions of c	codes and symbols.			Project No. SA18170340 Page 10 of 12



PR	OJEC				IDA (ınty,			R MI	NE :	SITE	Log of Boring No. W	/RSB-2	206	(CONT	
	ENT:	Α	-		Richfi			pan	у		Monitoring Well / Pie	ezome	ter l	D: NA	(CONT.)
ELEVATION (feet)	DEPTH (feet)	RUN	SAMPLE	SAMPLE & RECOVERY	DEPTH TO WATER	FRACTURING	HARDNESS	STRENGTH	WEATHERING	LITHOL	OGIC DESCRIPTION		GEOLOGIC MATERIAL	R	EMARKS
	201-	0:21 12:01	WRSB206_197-202							SILTY SAND (SM): cor		-	NATIVE SOIL	Borehole b	ackfilled with hydrated
	203		M							Bottom of boring at 202	2 ft bgs	-		bentonite of surface to cement gro bgs, hydra from ~20 to	hips from ground ~15 ft bgs, neat ut from ~15 to 20 ft ed bentonite chips o 80 ft bgs, and neat ut from ~80 to 202 ft
	204-														
	206-														
	208														
	209-														
	211-														
	213											-			
	214-														
	216-														
	218											-			
V	/ 0	00	J .	See	explar	nation	sheet	for des	scription	ons of codes and symbols.					Project No. SA18170340
ĺ															Page 12 of 12

PROJECT: ANACO	ONDA COPPEI County, Nevada		SITE	Log of Boring	No. \	WRSB-207
_	c Richfield Com			Monitoring We	II / P	iezometer ID: NA
BORING LOCATION	l: OU-5 (So	uth Was	ste Rock Area)			IING/EASTING 69.25 N / 326018.26 E
DRILLING CONTRAC	CTOR: Cascade	Drilling,	L.P.	DATE STARTED: 1/22/2020		DATE FINISHED: 1/22/2020
DRILLING EQUIPME	ENT: Boart Lor	ngyear L	S600, track-mounted rig	TOTAL DEPTH (feet): 166.4		MEASURING POINT: Ground surface
DRILLING METHOD	: Sonic			DEPTH TO WATER (NA / NA	FIRST	/ COMPLETION):
SAMPLING METHOL	D: 4" & 6" so	onic core	barrel	SCREEN INTERVAL NA	(feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAMET	TER: 6" (0-146	'), 4" (14	6-166.4')	LOGGED BY: R. Klier		REVIEWED BY: J. Klein
7	SAMPLE & RECOVERY BETH TO WATER FRACTURING BETH TO WATER FRACTURING BETH TO BETH TO WATER BETH TO BETH	STRENGTH STRENGTH WEATHERING	POORLY GRADED GRAVEL with SA yellowish brown (2.5Y 6/4), moist, ~56 subangular to angular gravel (up to 2. and subangular cobbles (up to 4 inche fine to coarse sand, weak cementatio (roots) At 1 to 1.5 ft: lense of material with his content, brown (7.5YR 5/4), moist, ~5 subangular gravel (up to 2.5 inches in to medium sand, ~5% nonplastic fines blocky structure At 3 ft: ~50% subangular to angular g inches in diameter) and cobbles (up to diameter), ~45% fine to medium sand fines	PTION AND (GP): light 5% fine to coarse 5 inches in diameter) es in diameter), ~45% n, trace organics gher moisture 5% fine to coarse diameter), ~40% fine s, weak cementation, ravel (up to 2.5 o 4 inches in	WASTE ROCK	REMARKS Sample WRSB207_0-0.5 collected from 0 to 0.5 ft bgs.
15	See explanation sheet	for description	ons of codes and symbols.		†	Project No. SA18170340 Page 1 of 10

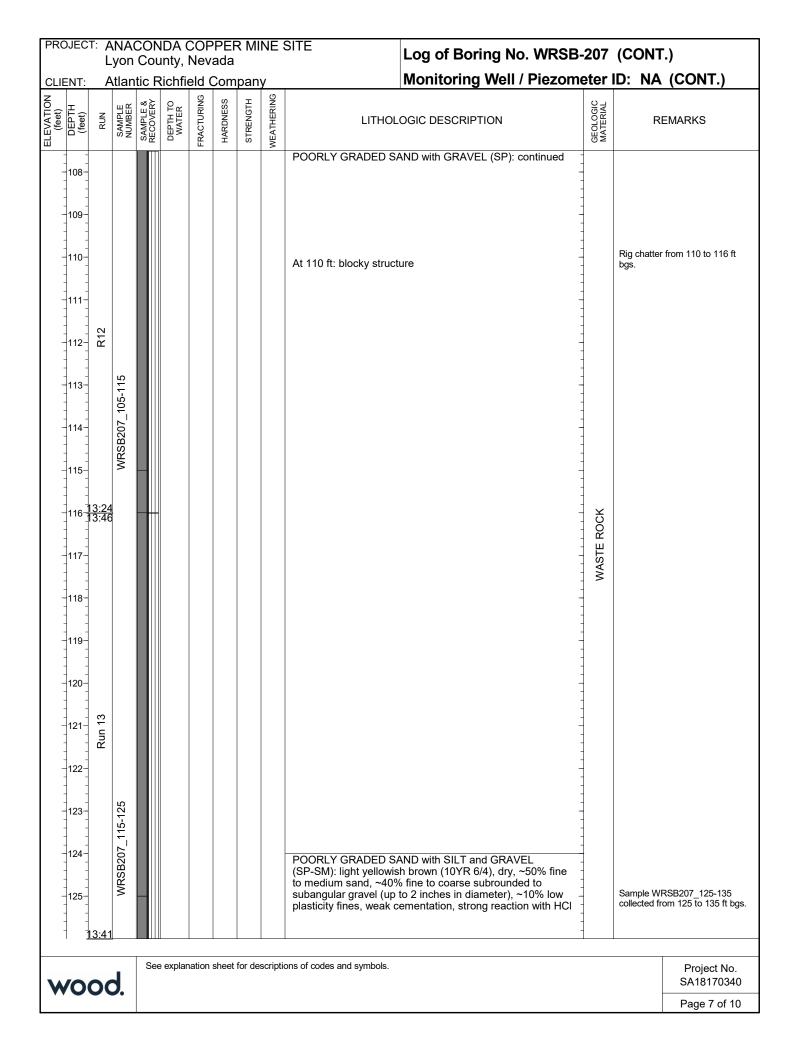




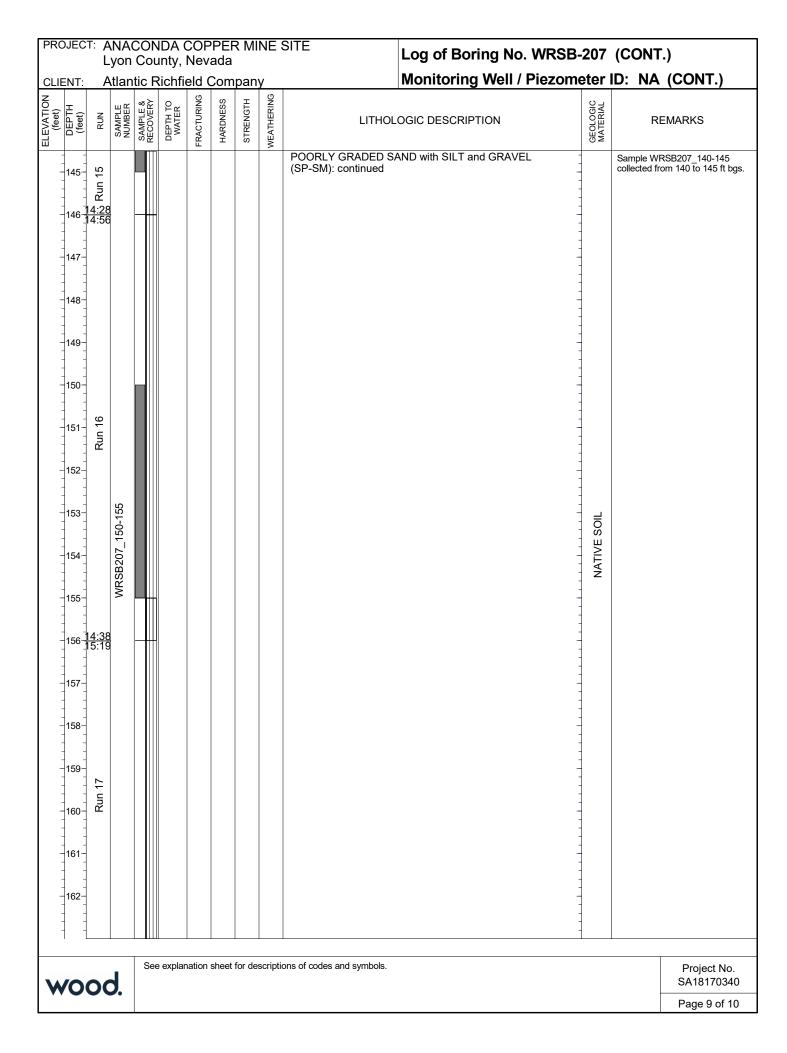
PROJECT: ANA Lyor		A COPPER /, Nevada		Log of Boring No. WRSB	-207	(CONT.)
CLIENT: Atlar	•	field Com		Monitoring Well / Piezom	eter	ID: NA (CONT.)
(feet) DEPTH (feet) (feet) RUN SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER	WATER FRACTURING HARDNESS	STRENGTH	LITHOLOGIC DESCRIPTION	GEOLOGIC	REMARKS
ELEV (# Characteristics	SAM RECO	WMA WASH TRACT TO THE TRACT TO	STRE WEAT	POORLY GRADED SAND with GRAVEL (SP): brown (7.5YR 4/4), moist, ~55% fine to medium sand, ~45% fine to coarse subangular gravel (up to 2.5 inches in diameter), trace fines, weak cementation, blocky structure, weak reaction with HCl POORLY GRADED GRAVEL with CLAY and SAND (GP-GC): yellowish brown (10YR 5/4), dry, ~50% fine to coarse subrounded to subangular gravel (up to 1.5 inches in diameter), ~40% fine to medium sand, ~10% low plasticity fines, weak cementation POORLY GRADED SAND with GRAVEL (SP): yellowish	MASTE ROCK	Rig chatter at 53 ft bgs.
wood.	See expl	lanation sheet	for description	brown (10YR 5/4), dry, ~50% fine to medium sand, ~45% ons of codes and symbols.	1	Project No. SA18170340 Page 4 of 10

	CONDA COPPER MIN County, Nevada	Log of Boring No. WRSB-207 (CC	ONT.)
CLIENT: Atla	ntic Richfield Company	Monitoring Well / Piezometer ID:	NA (CONT.)
(feet) DEPTH (feet) Run SAMPLE	SAMPLE & RECOVERY DEPTH TO WATER FRACTURING HARDNESS STRENGTH	MEATHERING GEOLOGIC MATERIAL	REMARKS
71- 72- 73- 80 mW 87- 78- 78- 78- 78- 78- 78- 78- 78- 80- 81- 81- 79- 82- 82- 83- 84- 84- 85- 86- 81- 84- 88- 88- 88- 88- 88- 88- 88- 88- 88	SAMPLE RECOVER RECOVER RECOVER RECOVER RECOVER RECOVER RECOVER RECOURT RECOURT RECOURT REACTURE R	ILITHOLOGIC DESCRIPTION STATE	REMARKS
Poom Run 10 WRSB207 85-95	See explanation sheet for desc	riptions of codes and symbols.	Project No. SA18170340 Page 5 of 10

PROJECT: ANACONDA COPPER MINE SITE Log of Boring No. WRSB-207 (CONT.) Lyon County, Nevada Monitoring Well / Piezometer ID: NA (CONT.) Atlantic Richfield Company CLIENT: ELEVATION (feet) DEPTH (feet) SAMPLE & RECOVERY DEPTH TO WATER FRACTURING GEOLOGIC MATERIAL HARDNESS STRENGTH SAMPLE NUMBER LITHOLOGIC DESCRIPTION **REMARKS** POORLY GRADED SAND with GRAVEL (SP): continued 90-91 92-93-WRSB207_85-95 94-95-96 11:05 13:04 97 WASTE ROCK 98-99-Rig chatter from 100 to 106 ft 100-101 Run 102-103-WRSB207_95-105 104-Sample WRSB207_105-115 collected from 105 to 115 ft bgs. 105-106 13:06 13:23 Run 107-See explanation sheet for descriptions of codes and symbols. Project No. wood. SA18170340 Page 6 of 10



PROJECT: ANACONDA COPPER MINE SITE Log of Boring No. WRSB-207 (CONT.) Lyon County, Nevada Monitoring Well / Piezometer ID: NA (CONT.) Atlantic Richfield Company CLIENT: ELEVATION (feet) DEPTH (feet) DEPTH TO WATER FRACTURING SAMPLE & RECOVERY HARDNESS STRENGTH GEOLOGIC MATERIAL SAMPLE NUMBER RUN LITHOLOGIC DESCRIPTION **REMARKS** POORLY GRADED SAND with SILT and GRAVEL (SP-SM): continued 127 128-129 WASTE ROCK 130-131 132-WRSB207_125-135 Rig chatter from 133 to 136 ft 133-134 Assumed transition to native soil 135at approximately 135 ft bgs. 136 14:07 14:23 At 136 ft: subrounded cobbles (up to 3.5 inches in diameter), granitic 137 Rig chatter from 138 to 146 ft 138-139-NATIVE SOIL 140-Run 141 142-WRSB207_140-145 143-See explanation sheet for descriptions of codes and symbols. Project No. wood. SA18170340 Page 8 of 10



PROJE				IDA (inty,			R MI	NE :	SITE	Log of Boring No. W	RSB-207	(CONT	.)
CLIENT	: <i>I</i>			Richfi			pan	У		Monitoring Well / Pie	zometer	ID: NA	(CONT.)
ELEVATION (feet) DEPTH	RUN	SAMPLE	SAMPLE & RECOVERY	DEPTH TO WATER	FRACTURING	HARDNESS	STRENGTH	WEATHERING	LITHOL	OGIC DESCRIPTION	GEOLOGIC	R	EMARKS
	-								POORLY GRADED SA (SP-SM): continued	ND with SILT and GRAVEL	-		
- 164									(0. 0).		-		
	1										SOIL		
165	Run										NATIVE 8		
=] ¥		
166	15:2	2	Щ								-		
-									Bottom of boring at 166	6.4 ft bgs		bentonite of	ackfilled with hydrated hips from ground
- 167	-										=	cement-be	~146 ft bgs and ntonite grout from
-	-										-	1101010	o. 1 10 2go.
168 	-										-		
- 169	-										-		
	_										=		
170	-										=		
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-172 -	;- - -										1		
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- 181	1										1		
WC	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	٦ -	See	e explar	nation	sheet	for des	scription	ons of codes and symbols.				Project No. SA18170340
WC		J.											Page 10 of 10

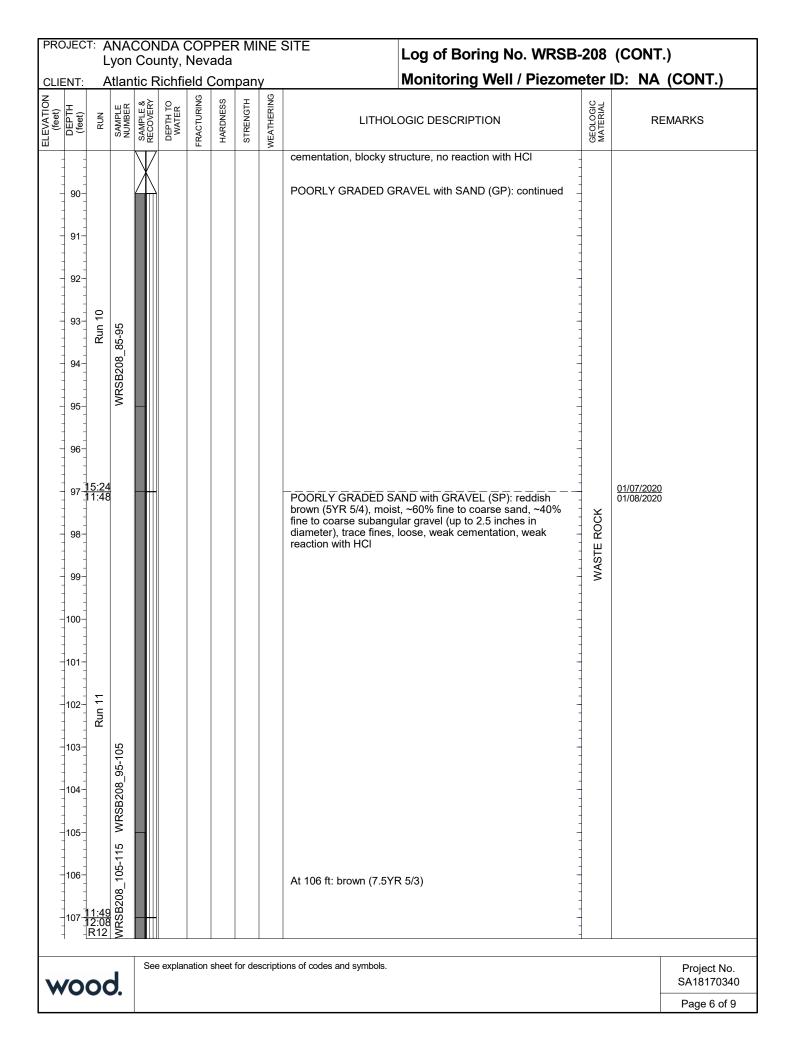
PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring I	No. V	VRSB-208
CLIENT: Atlantic Richfield Company			ezometer ID: NA
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) N		NG/EASTING 3.05 N / 328020.91 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/7/2020		DATE FINISHED: 1/10/2020
DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig	TOTAL DEPTH (feet): 153.5		MEASURING POINT: Ground surface
DRILLING METHOD: Sonic	DEPTH TO WATER (F	FIRST	/ COMPLETION):
SAMPLING METHOD: 4" & 6" sonic core barrel	SCREEN INTERVAL (feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAMETER: 6" (0-133.5'), 4" (133.5-153.5')	LOGGED BY: R. Klier		REVIEWED BY: J. Klein
(feet) Cleet) Cleet)	IPTION	GEOLOGIC MATERIAL	REMARKS
POORLY GRADED SAND with GRA (7.5YR 5/4), dry, ~55% fine to coarse subangular gravel (up to 2.5 loose, weak cementation, strong real to 4.5 inches in diameter), trace finest to 4.5 inches in diameter), trace finest to 4.5 inches in diameter).	e sand, ~45% fine to inches in diameter), ction with HCl	WASTE ROCK	Sample WRSB208_0-0.5 collected from 0 to 0.5 ft bgs.
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340 Page 1 of 9

	CONDA COPPER N County, Nevada	MINE	Log of Boring No. WRSB	-208	(CONT.)
CLIENT: Atlar	ntic Richfield Compa	any	Monitoring Well / Piezome	eter	ID: NA (CONT.)
(feet) DEPTH (feet) (feet) RUN SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER FRACTURING HARDNESS	SIRENGIH WEATHERING	LITHOLOGIC DESCRIPTION	GEOLOGIC	REMARKS
Harman Series (1972) Harman Series (1972)			At 26 ft: cobble-sized, fragmented rock (up to 4 inches in diameter), light brown (7.5YR 6/3), strong reaction with HCl At 28 ft: ~55% fine to coarse sand, ~40% fine to coarse subangular gravel (up to 1.5 inches in diameter), ~5% low plasticity fines	WASTE ROCK	Borehole caved when drilling from 27 to 37 ft bgs.
wood.	See explanation sheet for o	description	ons of codes and symbols.		Project No. SA18170340 Page 2 of 9

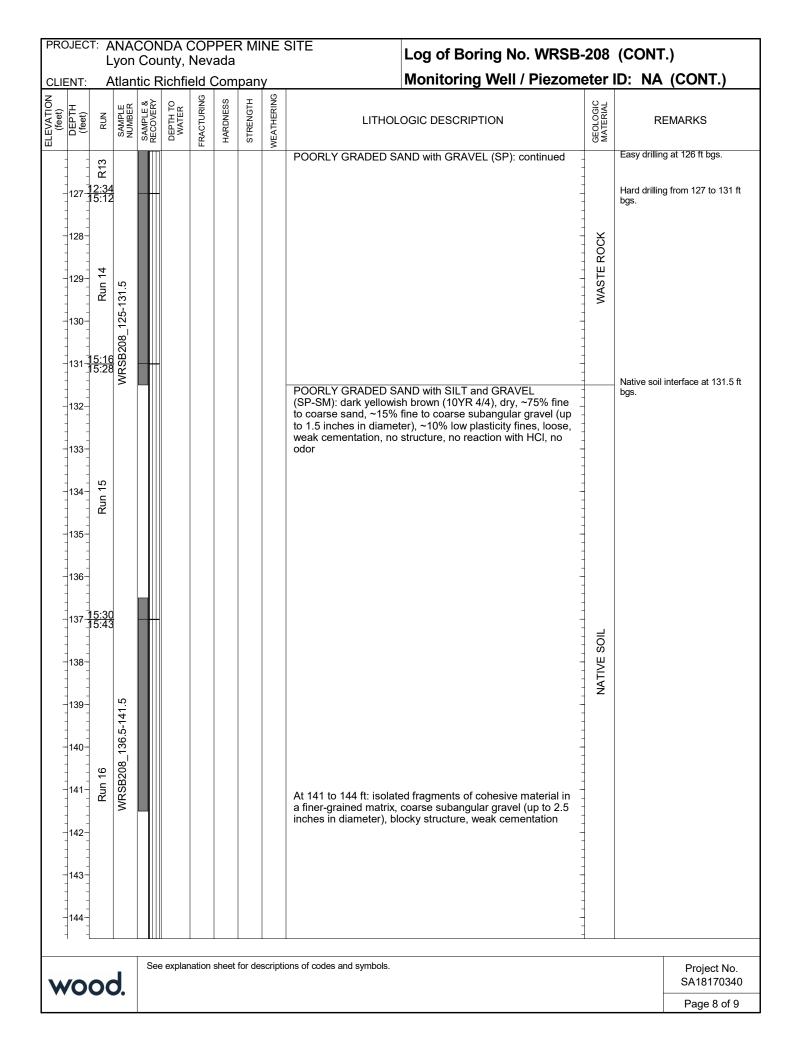
PROJECT: ANA	ACONDA (n County, l		Log of Boring No. WRSB		
	ntic Richfie	eld Company	Monitoring Well / Piezom	eter ID: NA	(CONT.)
(feet) DEPTH (feet) (feet) RUN SAMPLE	SAMPLE & RECOVERY DEPTH TO WATER	FRACTURING HARDNESS STRENGTH	LITHOLOGIC DESCRIPTION	GEOLOGIC MATERIAL A	EMARKS
34- 34- 34- 35- 40- 36- 37-12:13 38- 40- 41- 42- 41- 42- 43- 44- 44- 44- 45- 46- 47-13:40 48- 49- 99- 99- 99- 99- 99- 99- 99	NOMBE SAMPLE SAMPLE SAMPLE SAMPLE PECOVE PEC	FRACTUR HARDNE STRENG	POORLY GRADED SAND with GRAVEL (SP): continued SILTY SAND with GRAVEL (SM): pinkish gray (7.5YR 6/2), dry, ~50% fine to coarse sand, ~30% fine to coarse subrounded to subangular gravel (up to 2 inches in diameter), ~20% low plasticity fines, loose, no structure, strong reaction with HCI, no odor At 37 ft: dry, ~50% fine to coarse sand, ~35% fine to coarse subangular gravel, ~15% nonplastic fines, loose POORLY GRADED SAND with SILT and GRAVEL (SP-SM): brown (7.5YR 5/3), dry, ~55% fine to coarse sand, ~35% fine to coarse gravel (up to 2 inches in diameter), ~10% nonplastic fines, loose, weak reaction with HCI At 49 ft: fine to coarse gravel (up to 1.5 inches), strong reaction with HCI	Sample W collected fi	RSB208_25-35 rom 25 to 35 ft bgs.
252 - 201 -			reaction with HCI		
wood.	See explan	nation sheet for desc	ptions of codes and symbols.		Project No. SA18170340
					Page 3 of 9

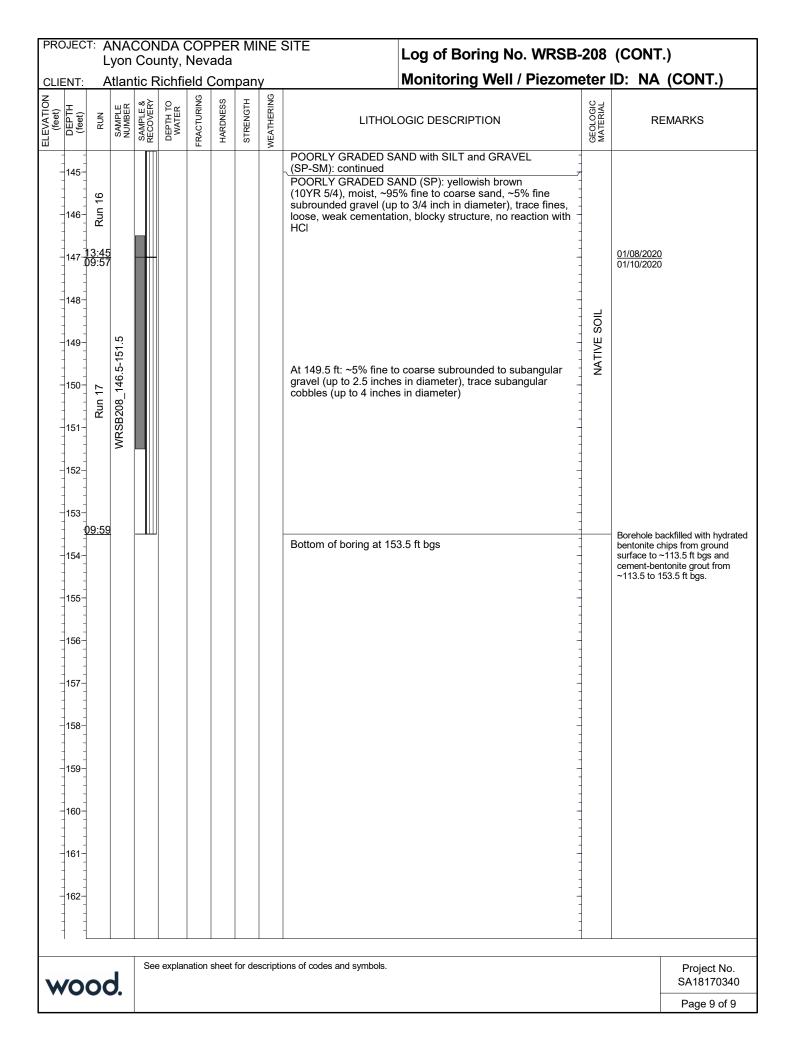
PROJECT: ANA Lyon	CONDA COPF County, Neva		Log of Boring No. WRSB-	-208 (CONT	.)
CLIENT: Atlan	tic Richfield C		Monitoring Well / Piezome	eter ID: NA	(CONT.)
(feet) DEPTH (feet) (feet) RUN SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER FRACTURING	HARDNESS STRENGTH WEATHERING	LITHOLOGIC DESCRIPTION	GEOLOGIC	EMARKS
- 53 - 53 - 54 - 55 - 56 - 56 - 57 - 13:50 - 58 - 58 - 58 - 58 - 58 - 58 - 58 -			POORLY GRADED SAND with GRAVEL (SP): light brown (7.5YR 6/3), dry, ~55% fine to coarse sand, ~40% fine to coarse subangular gravel (up to 1.5 inches in diameter), loose, strong reaction with HCl POORLY GRADED GRAVEL with SAND (GP): yellowish brown (10YR 5/4), dry, ~55% fine to coarse subangular gravel, ~45% fine to coarse sand, trace fines, loose, strong reaction with HCl		
59-			POORLY GRADED SAND with SILT and GRAVEL (SP-SM): yellowish brown (10YR 5/4), dry, ~50% fine to coarse sand, ~40% fine to coarse subrounded to subangular gravel (up to 1 inch in diameter), ~10% low plasticity fines, loose, weak reaction with HCl		
61-			piastionly lilles, 100se, weak reaction with HOI	WASTE ROCK	
62 63 64 64 64 64 65 65 65 65 65 65 65 65 65 65 65 65 65					
- 66- - 67 14:15 - 67 14:31			At 66 ft: fine to coarse subrounded to subangular gravel (up to 2 inches in diameter)		
20 - 00 - 00 - 00 - 00 - 00 - 00 - 00 -					
wood.	See explanation sh	sheet for description	ons of codes and symbols.		Project No. SA18170340
					Page 4 of 9

PROJECT: ANA	CONDA County			NE :	Log of Boring No. WRSE		
	ntic Richt	field Co	ompany	y	Monitoring Well / Piezon	neter II	D: NA (CONT.)
(feet) DEPTH (feet) Run SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER	FRACTURING	HARDNESS	WEATHERING	LITHOLOGIC DESCRIPTION	GEOLOGIC MATERIAL	REMARKS
Table 1					POORLY GRADED SAND with SILT and GRAVEL (SP-SM): continued POORLY GRADED SAND with GRAVEL (SP): brown (7.5YR 5/4), dry, ~60% fine to coarse sand, ~40% fine to coarse subangular gravel (up to 2.5 inches in diameter), loose, no reaction with HCl At 80 ft: trace fines At 80 ft: trace fines At 80 ft: brown (7.5YR 5/3) POORLY GRADED GRAVEL with SAND (GP): brown (10YR 4/3), ~55% fine to coarse subangular gravel (up to 2.5 inches in diameter), ~45% fine to coarse sand, weak ons of codes and symbols.	WASTE ROCK	
wood.	250 0/101		5: .51 400	- 5. ipu			Project No. SA18170340 Page 5 of 9



PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada Log of Boring No. WRSB-208 (CONT.)						
CLIENT: Atlan	ntic Richfi		oany	Monitoring Well / Piezome	eter	ID: NA (CONT.)
(feet) DEPTH (feet) (feet) RUN SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER	FRACTURING	STRENGTH WEATHERING	LITHOLOGIC DESCRIPTION	GEOLOGIC	REMARKS
108-				POORLY GRADED SAND with GRAVEL (SP): continued		
-110- -1112- -1113- -1114- -1115- -1116- -1117- -1118- -1119- -1119- -1119- -1119- -1119- -1119- -1119-				At 116 ft: cobble-sized, fragmented rock (up to 3.5 inches in diameter), trace fines	WASTE ROCK	Hard drilling at ∼117 ft bgs.
MRSB208 115-125				At 123 ft: dry, ~75% fine to coarse sand, ~20% fine subrounded to subangular gravel, trace coarse subrounded to subangular gravel, ~5% fines, loose, blocky structure, isolated fragments of cemented, fine gravel in a finergrained matrix, strong reaction with HCl		Rig chatter at ~124 ft bgs.
wood.	See explai	nation sheet fo	or description	ons of codes and symbols.		Project No. SA18170340
.,						Page 7 of 9





PROJECT: ANACONDA COPPER MINE Lyon County, Nevada	No. WRSB-2	209				
CLIENT: Atlantic Richfield Company		Monitoring Wel	II / Piezome	ter ID: NA		
BORING LOCATION: OU-5 (South Wa	DN: OU-5 (South Waste Rock Area) ELEVATION (feet) NA					
DRILLING CONTRACTOR: Cascade Drilling	DATE STARTED: 12/18/2019	DATE FII 12/18/20				
DRILLING EQUIPMENT: Boart Longyear	TOTAL DEPTH (feet): 15.0	MEASUR Ground	RING POINT: surface			
DRILLING METHOD: Sonic		DEPTH TO WATER (F NA / NA	FIRST / COMPLE	ETION):		
SAMPLING METHOD: 6" sonic core ba	arrel	SCREEN INTERVAL (1	feet): TOC ELE	EVATION (feet):		
BOREHOLE DIAMETER: 6" (0-15')		LOGGED BY: R. Klier	REVIEW J. Klein	ED BY:		
(feet) DEPTH (feet) RUN SAMPLE NUMBER SAMPLE & RECOVERY DEPTH TO WATER FRACTURING HARDNESS STRENGTH WEATHERING	LITHOLOGIC DESCRI	PTION	GEOLOGIC MATERIAL BA	EMARKS		
11:58 - - 1- - - - - - - - - - - - - - - - -	POORLY GRADED SAND with GRAY (10YR 6/3), dry, ~60% fine to coarse coarse subangular gravel (up to 2.5 ir loose, strong reaction with HCl	sand, ~40% fine to		RSB209_0-0.5 om 0 to 0.5 ft bgs.		
WRSB209_3-6 WRSB209	At 4 ft: very pale brown (10YR 7/3), r	no reaction with HCI				
7 12:00 7 12:02 8 -	At 7 ft: ~70% fine to coarse sand, ~30 subangular gravel (up to 2 inches in c reaction with HCI		Slight rig c	hatter, harder drilling at		
10- 11- 25 27 12- 13-	At 10 ft: cobble-sized, subangular to a fragments (up to 6 inches in diameter					
14- 14- 15- 12:05 M	At 14 ft: pale brown (2.5Y 7/4) Bottom of boring at 15 ft bgs	-				
See explanation sheet for descri	ptions of codes and symbols.			Project No. SA18170340		
				Page 1 of 1		

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	o. WRSB-210
CLIENT: Atlantic Richfield Company		/ Piezometer ID: NA
BORING LOCATION: OU-5 (South Waste Rock Area)		ORTHING/EASTING 536280.94 N / 327238.86 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 12/18/2019	DATE FINISHED: 12/18/2019
DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0	MEASURING POINT: Ground surface
DRILLING METHOD: Sonic	DEPTH TO WATER (FI	RST / COMPLETION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (fe	eet): TOC ELEVATION (feet):
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: R. Klier	REVIEWED BY: J. Klein
LITHOLOGIC DESCRI LENGLY DATE TO THE LONG	VEL (SP): yellowish coarse sand, ~30% to 2.5 inches in p to 5 inches in se, weak reaction with	Sample WRSB210_0-0.5 collected from 0 to 0.5 ft bgs.
13- 14- 15- 14:03 M Bottom of boring at 15 ft bgs		Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
See explanation sheet for descriptions of codes and symbols.	1	Project No.
wood.		SA18170340
		Page 1 of 1

	CONDA CO County, Ne		RMINE	SITE	Log of Boring	No. V	VRSB-2	<u>?</u> 11
_	tic Richfield		pany		Monitoring We	Monitoring Well / Piezometer ID: NA		
BORING LOCATIO	N: OU-	-5 (Sοι	uth Was	ste Rock Area)			ING/EAST	ING 27906.49 E
DRILLING CONTR	ACTOR: Cas	cade [Drilling,	DATE STARTED: 12/18/2019		DATE FIN 12/18/20	NISHED:	
DRILLING EQUIPM	MENT: Boa	ırt Lon	gyear L	S600, track-mounted rig	TOTAL DEPTH (feet): 15.0		MEASUR Ground	ING POINT: surface
DRILLING METHO	D: Son	iic			DEPTH TO WATER (I	FIRST	/ COMPLE	TION):
SAMPLING METH	OD: 6" s	onic c	ore barr	rel	SCREEN INTERVAL	(feet):	TOC ELE	VATION (feet):
BOREHOLE DIAM	ETER: 6" ((0-15')			LOGGED BY: R. Klier		REVIEWI J. Klein	ED BY:
ELEVATION (feet) C C C C C C C C C	SAMPLE & RECOVERY DEPTH TO WATER FRACTURING	HARDNESS	STRENGTH WEATHERING	POORLY GRADED SAND with GRA yellowish brown (10YR 4/4), dry, ~60 ~40% fine to coarse subangular to su to 2 inches in diameter), loose, no real	VEL (SP): dark % fine to coarse sand, brounded gravel (up	WASTE ROCK GEOLOGIC MATERIAL	Sample Wi	RSB211_0-0.5 om 0 to 0.5 ft bgs.
11- US 36 W S B 5 1 1 - 0 - 1 1 2 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1				At 12 ft: sand, medium dense, cobble rock (up to 5.5 inches in diameter)	e-sized fragmented		Borehole b	ing at 12 ft bgs.
15 10:36 ≥				Bottom of boring at 15 ft bgs		†	surface to	hips from ground 15 ft bgs.
wood.	See explanation	on sheet f	for descripti	ons of codes and symbols.				Project No. SA18170340
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PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	lo. W	/RSB-212
CLIENT: Atlantic Richfield Company			ezometer ID: NA
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) NO		NG/EASTING 3.08 N / 326420.16 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/15/2020		DATE FINISHED: 1/15/2020
DRILLING EQUIPMENT: Prosonic 600C, truck-mounted rig	TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface
DRILLING METHOD: Sonic	DEPTH TO WATER (F NA / NA	IRST /	COMPLETION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: B. Johnson		REVIEWED BY: J. Klein
Note	PTION VEL (SP): light brown sand, ~30% meter), ~5% fines, ion with HCl	WASTE ROCK GEOLOGIC MATERIAL	REMARKS Sample WRSB212_0-0.5 collected from 0 to 0.5 ft bgs.
14- 12:16 S Bottom of boring at 15 ft bgs	-		Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340
			Page 1 of 1

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	No. WRS	SB-213
CLIENT: Atlantic Richfield Company	Monitoring Wel		
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) NO		EASTING N / 325532.47 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/13/2020	DAT	E FINISHED: 3/2020
DRILLING EQUIPMENT: Prosonic 600C, truck-mounted rig	TOTAL DEPTH (feet): 15.0		ASURING POINT: ound surface
DRILLING METHOD: Sonic	DEPTH TO WATER (F NA / NA	FIRST / COM	MPLETION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (feet): TOC	ELEVATION (feet):
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: B. Johnson	REV	/IEWED BY: Klein
LITHOLOGIC DESCRIPTION OF THE PROPERTY OF THE	PTION /EL (SP): brown sand, ~35% liameter), loose, weak	GEOLOGIC MATERIAL Waterial	REMARKS ple WRSB213_0-0.5 cted from 0 to 0.5 ft bgs.
14- 15- 14:10 S Bottom of boring at 15 ft bgs	-	bento	hole backfilled with hydrated onite chips from ground ice to 15 ft bgs.
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340
			Page 1 of 1

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring I	No. V	VRSB-214
CLIENT: Atlantic Richfield Company			ezometer ID: NA
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) N		ING/EASTING 88.75 N / 325221.66 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/10/2020		DATE FINISHED: 1/10/2020
DRILLING EQUIPMENT: Prosonic 600C, truck-mounted rig	TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface
DRILLING METHOD: Sonic	DEPTH TO WATER (F NA / NA	FIRST	/ COMPLETION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL ((feet):	TOC ELEVATION (feet):
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: K. Pennell		REVIEWED BY: J. Klein
NO	PTION and GRAVEL % fine to coarse 3 inches in diameter), g reaction with HCl	WASTE ROCK	REMARKS Sample WRSB214_0-0.5 collected from 0 to 0.5 ft bgs.
13- 14- 14- 15- 10:39 × Bottom of boring at 15 ft bgs			Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340
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PROJECT: ANACONDA COPPER I Lyon County, Nevada	MINE SITE	Log of Boring No. \	WRSB-215
CLIENT: Atlantic Richfield Compa	any	Monitoring Well / P	
BORING LOCATION: OU-5 (Sout	th Waste Rock Area)	ELEVATION (feet) NORTH NA 153754	IING/EASTING 46.91 N / 327049.95 E
DRILLING CONTRACTOR: Cascade D	rilling, L.P.	DATE STARTED: 1/14/2020	DATE FINISHED: 1/14/2020
DRILLING EQUIPMENT: Boart Longy	year LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0	MEASURING POINT: Ground surface
DRILLING METHOD: Sonic		DEPTH TO WATER (FIRST NA / NA	/ COMPLETION):
SAMPLING METHOD: 6" sonic cor	re barrel	SCREEN INTERVAL (feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAMETER: 6" (0-15')		LOGGED BY: R. Klier	REVIEWED BY: J. Klein
Clear Clea	POORLY GRADED SAND with GRAbrown (10YR 5/4), dry, ~75% fine to fine to coarse subrounded to subang inches in diameter) and cobbles (up diameter), ~5% fines, loose, weak cowith HCl At 3 ft: weak cementation, blocky str At 10 ft: brown (7.5YR 5/4) At 11 ft: ~70% fine to coarse sand, ~ subrounded gravel (up to 2.5 inches cobbles (up to 4 inches in diameter),	IPTION VEL (SP): yellowish coarse sand, ~20% ular gravel (up to 2.5 to 4 inches in ementation, no reaction ucture 30% fine to coarse in diameter) and	REMARKS Sample WRSB215_0-0.5 collected from 0 to 0.5 ft bgs.
13- 14- 14- 15-08:54	Bottom of boring at 15 ft bgs		Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
	r descriptions of codes and symbols.		Project No. SA18170340
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PROJECT: ANAC	CONDA COPPE County, Nevada		SITE	Log of Boring I	No. V	WRSB-216
1	tic Richfield Con			Monitoring We	II / Pi	iezometer ID: NA
BORING LOCATIO	N: OU-5 (So	outh Was	ste Rock Area)			ING/EASTING 59.57 N / 326034.23 E
DRILLING CONTRA	ACTOR: Cascade	Drilling,	L.P.	DATE STARTED: 1/14/2020	100700	DATE FINISHED: 1/14/2020
DRILLING EQUIPM	IENT: Prosonic	600C, tr	ruck-mounted rig	TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface
DRILLING METHO	D: Sonic			DEPTH TO WATER (I	FIRST	/ COMPLETION):
SAMPLING METHO	DD: 6" sonic	core barr	rel	SCREEN INTERVAL ((feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAME	ETER: 6" (0-15'))		LOGGED BY: B. Johnson		REVIEWED BY: J. Klein
Clear Clea	SAMPLE & SAMPLE & RECOVERY DEPTH TO WATER FRACTURING A HARDNESS A	STRENGTH WEATHERING	POORLY GRADED SAND with GRAY (7.5YR 5/3), dry, ~65% fine to coarse subangular gravel and cobbles (up to loose, weak cementation, weak react At 2 to 15 ft: granitic gravel clasts (up diameter)	PTION VEL (SP): brown e sand, ~35% d inches in diameter), ion with HCl	WASTE ROCK	REMARKS Sample WRSB216_0-0.5 collected from 0 to 0.5 ft bgs.
14- 14- 15-08:33			Bottom of boring at 15 ft bgs		- - - - - - - -	Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
wood.	See explanation sheet	t for descripti	ions of codes and symbols.			Project No. SA18170340
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PROJECT: ANACONDA COPF Lyon County, Neva		Log of Boring No.	WRSB-217
CLIENT: Atlantic Richfield C		Monitoring Well / P	Piezometer ID: NA
BORING LOCATION: OU-5 ((South Waste Rock Area)		HING/EASTING 79.55 N / 327824.28 E
DRILLING CONTRACTOR: Casca	ade Drilling, L.P.	DATE STARTED: 12/17/2019	DATE FINISHED: 12/17/2019
DRILLING EQUIPMENT: Boart I	Longyear LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0	MEASURING POINT: Ground surface
DRILLING METHOD: Sonic		DEPTH TO WATER (FIRST NA / NA	/ COMPLETION):
SAMPLING METHOD: 6" soni	nic core barrel	SCREEN INTERVAL (feet): NA	NA
BOREHOLE DIAMETER: 6" (0-1	15')	LOGGED BY: R. Klier	REVIEWED BY: J. Klein
ELEVATION (feet) (feet) (feet) (feet) (Feet) SAMPLE & RUN SAMPLE & RECOVERY DEPTH TO WATER FRACTURING	LITHOLOGIC DESCR POORLY GRADED SAND with GR brown (10YR 5/4), dry, ~60% fine to	AVEL (SP): yellowish ocoarse sand, ~40%	REMARKS Sample WRSB217_0-0.5 collected from 0 to 0.5 ft bgs.
	At 4 ft: pale brown (10YR 6/3) At 7 ft: dark yellowish brown (10YR cobbles (up to 6 inches in diameter) At 13 ft: fine to coarse subrounded between the body and the body at 15 ft bgs.	4/4), trace subangular	Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs. Project No.
	sheet for descriptions of codes and symbols.		Project No. SA18170340
			Page 1 of 1

	ONDA COPPER Mounty, Nevada	MINE SITE	Log of Boring	No. V	WRSB-218
1	Richfield Compa	ny	Monitoring We	II / P	iezometer ID: NA
BORING LOCATION	: OU-5 (South	n Waste Rock Area)	ELEVATION (feet) NA		ING/EASTING 40.22 N / 328192.29 E
DRILLING CONTRAC	CTOR: Cascade Dri	illing, L.P.	DATE STARTED: 12/17/2019	10000	DATE FINISHED: 12/17/2019
DRILLING EQUIPME	NT: Boart Longy	ear LS600, track-mounted rig	TOTAL DEPTH (feet) 15.0	:	MEASURING POINT: Ground surface
DRILLING METHOD:	Sonic		DEPTH TO WATER NA / NA	(FIRST	/ COMPLETION):
SAMPLING METHOL	o: 6" sonic core	e barrel	SCREEN INTERVAL NA	(feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAMET	ER: 6" (0-15')		LOGGED BY: R. Klier		REVIEWED BY: J. Klein
7	RECOVERY WATER WATER HARDNESS STRENGTH	POORLY GRADED SAND with G (7.5YR 5/4), dry, ~60% fine to co-coarse subangular gravel (up to 2 trace fines, loose, weak cementa HCl At 4 ft: cobble-sized rock fragmer diameter) At 5 ft: ~60% fine to coarse sand gravel (up to 2.5 inches in diamet fines) At 6 ft: trace organic material (sm	CRIPTION GRAVEL (SP): brown arse sand, ~40% fine to 2 inches in diameter), tion, weak reaction with onts (up to 4.5 inches in .~35% fine to coarse ter), ~5% low plasticity	WASTE ROCK WASTERIAL	REMARKS Sample WRSB218_0-0.5 collected from 0 to 0.5 ft bgs.
14-33 M 14-14:33 M 15-14:33 M		Bottom of boring at 15 ft bgs		-	Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
1	See explanation sheet for o	descriptions of codes and symbols.			Project No. SA18170340
					Page 1 of 1

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	No. V	VRSB-219
CLIENT: Atlantic Richfield Company			ezometer ID: NA
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) No		NG/EASTING 7.61 N / 326918.63 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/21/2020		DATE FINISHED: 1/21/2020
DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface
DRILLING METHOD: Sonic	DEPTH TO WATER (F NA / NA	IRST	/ COMPLETION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: R. Klier		REVIEWED BY: J. Klein
LITHOLOGIC DESCRIF LITHOLO	PTION IND (GP): light olive coarse subangular to meter) and inches in diameter), ense, weak ar to angular gravel gular cobbles (up to 6	WASTE ROCK GEOLOGIC MATERIAL	REMARKS Sample WRSB219_0-0.5 collected from 0 to 0.5 ft bgs.
13- 14- 14- 15- 10:31 M Bottom of boring at 15 ft bgs	- - - - - -		Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340
			Page 1 of 1

PROJECT: ANA	CONDA County,				NE	SITE	Log of Boring	No. V	NRSB-2	220
1	tic Richf				у		Monitoring We			
BORING LOCATION	ON: OU-5 (South Waste Rock Area)							ING 26197.40 E		
DRILLING CONTR	ACTOR: (Casca	ade	Drill	ing,	L.P.	DATE STARTED: 1/21/2020		DATE FIN 1/21/202	
DRILLING EQUIPM	MENT: E	Boart	Lor	igye	ar L	S600, track-mounted rig	TOTAL DEPTH (feet): 15.0		MEASUR Ground	ING POINT: surface
DRILLING METHO	D: S	Sonic	;				DEPTH TO WATER (NA / NA	FIRST	/ COMPLE	TION):
SAMPLING METH	OD: 6	6" sor	nic c	ore	barr	rel	SCREEN INTERVAL NA	(feet):	TOC ELE	VATION (feet):
BOREHOLE DIAM	ETER: 6	6" (0-	15')				LOGGED BY: R. Klier		REVIEW J. Klein	ED BY:
ELEVATION (feet) DEPTH (feet) RUN SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER	-RACTURING	HARDNESS	STRENGTH	WEATHERING	LITHOLOGIC DESCRI	PTION	GEOLOGIC MATERIAL	RE	EMARKS
13:17 Run 2 Run 2 Run 1 7 8-10 10-10		HR HR			AM ME	POORLY GRADED GRAVEL with SA (10YR 6/3), dry, ~60% fine to coarse gravel (up to 2.5 inches in diameter) a cobbles (up to 4 inches in diameter), sand, loose, weak cementation, no re At 10 ft: subangular to angular cobble diameter) Bottom of boring at 15 ft bgs	subangular to angular and subangular -40% fine to coarse action with HCl	WASTE ROCK	collected fr	ackfilled with hydrated hips from ground
15	See expla	nation	sheet	for de	scripti	ons of codes and symbols.		1		Project No.
wood.										SA18170340
	1									Page 1 of 1

PROJECT: ANA	CONDA C County, N			NE S	SITE	Log of Boring	No. V	VRSB-2	21
1	tic Richfie			/		Monitoring We	II / Pi	iezome	ter ID: NA
BORING LOCATIO	N: O	U-5 (Sc	outh V	V ast	te Rock Area)			ING/EAST	ING 24744.12 E
DRILLING CONTR	ACTOR: Ca	ascade	Drilli	ng, l	L.P.	DATE STARTED: 1/10/2020		DATE FIN 1/10/202	NISHED:
DRILLING EQUIPM	MENT: Pr	osonic	600C	C, tru	uck-mounted rig	TOTAL DEPTH (feet): 15.0	:	MEASUR Ground	ING POINT: surface
DRILLING METHO	D: So	onic				DEPTH TO WATER (NA / NA	FIRST	/ COMPLE	TION):
SAMPLING METH	OD: 6"	sonic o	core b	oarre	el	SCREEN INTERVAL NA	(feet):	NA	VATION (feet):
BOREHOLE DIAM	ETER: 6"	(0-15')				LOGGED BY: K. Pennell	_	REVIEW	ED BY:
Column C		FRACTURING HARDNESS HARDNESS		WEATHERING	POORLY GRADED SAND with SILT (SP-SM): very pale brown (10YR 7/4) sand, ~20% subangular gravel (up to ~10% low plasticity fines, loose, weak structure, strong reaction with HCl	PTION and GRAVEL , ~70% fine to coarse 3 inches in diameter), cementation, no	WASTE ROCK	RE Sample WI	EMARKS RSB221_0-0.5 om 0 to 0.5 ft bgs.
13- 14- 14- 15- 15- 15- 15- 15- 15- 15- 15- 15- 15					Bottom of boring at 15 ft bgs				ackfilled with hydrated hips from ground 15 ft bgs.
wood.	See explana	ation sheet	for des	scriptio	ons of codes and symbols.				Project No. SA18170340
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PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	o. WRSB-2	22
CLIENT: Atlantic Richfield Company	Monitoring Well		
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) NO NA 15	RTHING/EASTI 38592.31 N / 32	
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/15/2020	DATE FIN 1/15/202	
DRILLING EQUIPMENT: Prosonic 600C, truck-mounted rig	TOTAL DEPTH (feet): 15.0	MEASURI Ground s	NG POINT: surface
DRILLING METHOD: Sonic	DEPTH TO WATER (FI	RST / COMPLE	TION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (fe	eet): TOC ELE	VATION (feet):
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: B. Johnson	REVIEWE J. Klein	ED BY:
No.31 No.3	PTION /EL (SP): brown sand, ~40% 4.5 inches in	RE COGOOGO WASTE ROCK Sample WE collected from Borehole ba	MARKS ISB222_0-0.5 Im 0 to 0.5 ft bgs.
15	-	surface to 1	
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340
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PROJECT: ANACONDA COPPER N Lyon County, Nevada	MINE SITE	Log of Boring No. \	NRSB-223
CLIENT: Atlantic Richfield Compa	iny	Monitoring Well / P	iezometer ID: NA
BORING LOCATION: OU-5 (South	n Waste Rock Area)		IING/EASTING 84.50 N / 327221.04 E
DRILLING CONTRACTOR: Cascade Dr	illing, L.P.	DATE STARTED: 1/23/2020	DATE FINISHED: 1/23/2020
DRILLING EQUIPMENT: Boart Longy	ear LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0	MEASURING POINT: Ground surface
DRILLING METHOD: Sonic		DEPTH TO WATER (FIRST NA / NA	/ COMPLETION):
SAMPLING METHOD: 6" sonic core	e barrel	SCREEN INTERVAL (feet): NA	TOC ELEVATION (feet): NA
BOREHOLE DIAMETER: 6" (0-15')		LOGGED BY: R. Klier	REVIEWED BY: J. Klein
Check Chec	POORLY GRADED GRAVEL with S/brown (2.5Y 5/3), moist, ~55% fine to angular gravel (up to 2.5 inches in di (up to 3.5 inches in diameter), ~40% ~5% nonplastic fines, weak cementa HCl	AND (GP): light olive of coarse subangular to fameter) and cobbles fine to coarse sand, attion, no reaction with	REMARKS Sample WRSB223_0-0.5 collected from 0 to 0.5 ft bgs.
12- 13- 14- 14- 15-13:27	At 12 ft: ~70% fine to coarse subang (up to 2.5 inches in diameter) and co in diameter), ~25% fine to coarse sar fines Bottom of boring at 15 ft bgs	bbles (up to 6 inches	Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
15 15	descriptions of codes and symbols.	I	Project No.
wood.	and dynisold.		SA18170340
			Page 1 of 1

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring	No. WRSB-224
CLIENT: Atlantic Richfield Company		II / Piezometer ID: NA
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) No.	IORTHING/EASTING 1538626.18 N / 327761.44 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/21/2020	DATE FINISHED: 1/21/2020
DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0	: MEASURING POINT: Ground surface
DRILLING METHOD: Sonic		FIRST / COMPLETION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL ((feet): TOC ELEVATION (feet):
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: R. Klier	REVIEWED BY: J. Klein
(feet) Cleet) Cleet)	CRIPTION	GEOLOGIC MATERIAL SANAWA MATERIAL MATERIAL
POORLY GRADED GRAVEL with yellowish brown (2.5Y 6/3), moist, subangular gravel (up to 3 inches cobbles (up to 5 inches in diamete sand, medium dense, weak ceme HCl At 1 ft: pale brown (2.5Y 7/4), trac HCl At 5 ft. passiles and the passiles and	~55% fine to coarse in diameter) and angular er), ~45% fine to coarse ntation, no reaction with e fines, no reaction with	Sample WRSB224_0-0.5 collected from 0 to 0.5 ft bgs.
At 13 ft. angular cobbles (up to 6.3) At 13 ft. angular cobbles (up to 6.3) Bottom of boring at 15 ft bgs		Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
15 U9:00 S Each of bothing at 10 it bgs		Project No.
wood.		SA18170340
		Page 1 of 1

PROJECT: ANA	COND. Count				NE	SITE	Log of Boring	No. V	WRSB-2	225
-	itic Ric	-			٧		Monitoring We	II / P	iezome	ter ID: NA
BORING LOCATIO						ste Rock Area)			ING/EAST	ING 24424.05 E
DRILLING CONTR	ACTOR	: Caso	ade	Drill	ing,	L.P.	DATE STARTED: 1/9/2020	13300-	DATE FII 1/9/2020	NISHED:
DRILLING EQUIPN	MENT:	Pros	onic	600	C, tr	ruck-mounted rig	TOTAL DEPTH (feet)	:		RING POINT:
DRILLING METHO	DD:	Soni				<u> </u>	15.0 DEPTH TO WATER (FIRST		
SAMPLING METH		6" so		ore	harr		NA / NA SCREEN INTERVAL	(feet):		EVATION (feet):
					Duii	01	NA LOGGED BY:		NA REVIEW	ED BY:
BOREHOLE DIAM		6" (0	Ť		ڻ ا		B. Johnson		J. Klein	
Clear Clea	SAMPLE & SAMPLE & RECOVERY DEPTH TO	WATER	HARDNESS	STRENGTH	WEATHERING	POORLY GRADED SAND with SILT (SP-SM): strong brown, dry, ~70% m subangular gravel (up to 2 inches in plasticity fines, loose, weak cementa HCI At 3 to 5 ft: large granitic clasts (up to 10 yr 7/3), dry, ~90% subangular gravel to 5 inches in diameter), ~10% medic cementation, gravel is granitic, no research	and GRAVEL ledium sand, ~20% diameter), ~10% low tion, no reaction with o 5 inches in diameter) overy pale brown avel and cobbles (up um sand, loose, weak	WASTE ROCK MATERIAL	Sample W	RSB225_0-0.5 om 0 to 0.5 ft bgs.
NRSB225_6-15						POORLY GRADED SAND with SILT (SP-SM): strong brown, dry, ~70% m subangular gravel (up to 2 inches in plasticity fines, loose, weak cementa HCl Bottom of boring at 15 ft bgs	nedium sand, ~20% diameter), ~10% low			ackfilled with hydrate hips from ground 15 ft bgs.
wood.	See ex	planation	sheet	for de	scripti	ions of codes and symbols.		1		Project No. SA18170340
₩ 000 .										Page 1 of 1

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	o. WRSB-226
CLIENT: Atlantic Richfield Company	Monitoring Well	/ Piezometer ID: NA
BORING LOCATION: OU-5 (South Waste Rock Area)		RTHING/EASTING 39082.78 N / 324763.56 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/17/2020	DATE FINISHED: 1/17/2020
DRILLING EQUIPMENT: Prosonic 600C, truck-mounted rig	TOTAL DEPTH (feet): 15.0	MEASURING POINT: Ground surface
DRILLING METHOD: Sonic	DEPTH TO WATER (FII	RST / COMPLETION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (fe	eet): TOC ELEVATION (feet):
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: B. Johnson	REVIEWED BY: J. Klein
NO 12 C CODDIEST CONTROL OF THE DOT OF THE D	AVEL (SP): brown arse sand, ~25% in diameter), loose,	J. Klein REMARKS Sample WRSB226_0-0.5 collected from 0 to 0.5 ft bgs.
14- 15- 15- 15- 19:29 Bottom of boring at 15 ft bgs		Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
See explanation sheet for descriptions of codes and symbols.		Project No. SA18170340
		Page 1 of 1

CLIENT: Allantic Richfield Company BORING LOCATION: OU-5 (South Waste Rock Area) BORING LOCATION: OU-5 (South Waste Rock Area) BORING CONTRACTOR: Cascade Drilling, L.P. DATE STARTED 1/24/2020 DRILLING CONTRACTOR: Date Institute of the Institute of Inst		ONDA COPPER MINE County, Nevada	SITE	Log of Boring I	No. V	VRSB-227
DRILLING CONTRACTOR: Cascade Drilling, L.P. DRILLING CONTRACTOR: Cascade Drilling, L.P. DRILLING EOUIPMENT: Boart Longwar L.S600, track-mounted rig DRILLING METHOD: Sonic SAMPLING METHOD: 6° sonic core barrel SAMPLING METHOD: 6° sonic core barrel SCREEN INTERVAL (ree): NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA SCREEN INTERVAL (ree): NA INA NA INA NA INA NA INA NA INA SCREEN INTERVAL (ree): NA INA	•	•		Monitoring We	II / Pi	ezometer ID: NA
DRILLING CONTRACTOR: Cascade Drilling, L.P. DATE SNATED: 1,24/2020 DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig TOTAL DEPTH (feet): HEASURING POINT: Ground surface of the property of the pro	BORING LOCATION	: OU-5 (South Wa	ste Rock Area)			
DGRILLING METHOD: Somic DEPH TO WATER (FIRST) COMMETION: SAMPLING METHOD: 6* Sonic core barrel SAMPLING METHOD: 6* Sonic core barrel SAMPLING METHOD: 1. COGED BY: R. Killer REVIEWED BY: J. Man Na. Na. Na. Na. Na. Na. Na. N	DRILLING CONTRAC	CTOR: Cascade Drilling,	, L.P.	DATE STARTED:	DATE STARTED: DATE FINISH	
DRILLING METHOD: Sonic Sonic core barriel SAMPLING METHOD: 6" sonic core barriel SAMPLING METHOD: 6" sonic core barriel SCREEN INTERVAL (feet): NA	DRILLING EQUIPME	ENT: Boart Longyear L	S600, track-mounted rig			
BOREHOLE DIAMETER: 6" (0-15) COSED BY: R. Killer REVIEWED BY: J. Killer REMARKS REVIEWED BY: J. Killer REMARKS REMEMBER 11 REMARKS REMEMBER 11 REMARKS REMA	DRILLING METHOD:	Sonic		DEPTH TO WATER (I	FIRST	/ COMPLETION):
BOREHOLE DIAMETER: 6' (0-15) R. Klier J. Klein	SAMPLING METHOD	D: 6" sonic core bar	rel		(feet):	
POORLY GRAVEL with SAND (GP): light yellowish brown (10YR 6/4) POORLY GRAVEL with SAND (GP): light yellowish brown (10YR 6/4) POORLY GRAVEL with SAND (GP): light yellowish brown (10YR 6/4) Sample WRS8227, O4.5 colected from 0 to 0.5 ft bgs. cole		TER: 6" (0-15')				
Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs. See explanation sheet for descriptions of codes and symbols. Project No. SA18170340	Run 2	PAGTUERY BEPTH TO WATER FRACTURING HARDNESS STRENGTH STRENGTH WEATHERING	POORLY GRADED GRAVEL with Syyellowish brown (10YR 6/4), moist, subangular gravel (up to 2.5 inches in cobbles (up to 4 inches in diameter), sand, ~5% nonplastic fines, weak cestructure, no reaction with HCI At 3 ft: brown (7.5YR 4/3), subangular inches in diameter)	AND (GP): light 55% fine to coarse n diameter) and ~40% fine to coarse mentation, blocky ar cobbles (up to 5	ROCK	Sample WRSB227_0-0.5
See explanation sheet for descriptions of codes and symbols. Project No. SA18170340	13- 14- 14- 14- 14- 14- 14- 14- 14- 14- 14		Bottom of boring at 15 ft bgs		-	bentonite chips from ground
	15-23-2	See explanation sheet for descript				,
	WOOO .					SA18170340 Page 1 of 1

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	No. V	VRSB-228
CLIENT: Atlantic Richfield Company			ezometer ID: NA
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) NO		ING/EASTING 59.69 N / 327438.83 E
DRILLING CONTRACTOR: Cascade Drilling, L.P.			DATE FINISHED: 1/23/2020
DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface
DRILLING METHOD: Sonic	DEPTH TO WATER (F NA / NA	FIRST	/ COMPLETION):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: R. Klier		REVIEWED BY: J. Klein
Number 10 10 10 10 10 10 10 1	PTION AND (GP): pale yellow subangular gravel obles (up to 3.5 inches old, ~5% nonplastic	WASTE ROCK	REMARKS Sample WRSB228_0-0.5 collected from 0 to 0.5 ft bgs.
14- 28 80 80 80 80 80 80 80 80 80 80 80 80 80			Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340
			Page 1 of 1

PROJECT: ANACOND. Lyon Count		SITE	Log of Boring	No. V	VRSB-229	
· ·	chfield Company		Monitoring Well / Piezometer ID: NA			
BORING LOCATION:	OU-5 (South Wa	ste Rock Area)			ING/EASTING 73.73 N / 328470.85 E	
DRILLING CONTRACTOR	a: Cascade Drilling,	, L.P.	DATE STARTED: 12/18/2019	DATE STARTED: DATE FINISHEI		
DRILLING EQUIPMENT:	Boart Longyear L	TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface		
DRILLING METHOD:	Sonic		DEPTH TO WATER (I	FIRST		
SAMPLING METHOD:	6" sonic core bar	rel	SCREEN INTERVAL NA	(feet):	TOC ELEVATION (feet): NA	
BOREHOLE DIAMETER:	6" (0-15')		LOGGED BY: R. Klier		REVIEWED BY: J. Klein	
3- 10-9:11 2- 3- 1-10:102 8- 4- 709:15 6- 10-10-10-10-10-10-10-10-10-10-10-10-10-1	FRACTURING HARDNESS STRENGTH WEATHERING WEATHERING	POORLY GRADED SAND with GRA yellowish brown (10YR 6/4), dry, ~60 ~40% fine to coarse subangular grav diameter), loose, strong reaction with	VEL (SP): light % fine to coarse sand, el (up to 2.5 inches in	WASTE ROCK WASTERIAL	REMARKS Sample WRSB229_0-0.5 collected from 0 to 0.5 ft bgs.	
11- cm 12- 13- 14- 14- 14- 14- 14- 14- 14- 14		At 13 ft: cobble-sized, fragmented roddiameter)	ck (~5 inches in		Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.	
15		Bottom of boring at 15 ft bgs		1		
wood.	xplanation sheet for descript	tions of codes and symbols.			Project No. SA18170340	
					Page 1 of 1	

PROJECT: ANA	CONDA County,			MIN	VE S	SITE	Log of Boring	No. \	WRSB-2	230
1	tic Richfi			oany	,		Monitoring We	ell / P	iezome	ter ID: NA
BORING LOCATIO	N: C)U-5 ((Sou	ıth V	Vas	te Rock Area)	ELEVATION (feet) NORTHING/EASTING NA 1539141.87 N / 325305.			
DRILLING CONTRACTOR: Cascade Drilling, L.P.						L.P.	DATE STARTED: 1/16/2020		DATE FII 1/16/202	NISHED:
DRILLING EQUIPN	лЕNT: F	rosor	nic 6	300C	C, tru	uck-mounted rig	TOTAL DEPTH (feet):	MEASUF Ground	RING POINT:
DRILLING METHO	D: S	onic					DEPTH TO WATER NA / NA	(FIRST	1	
SAMPLING METH	OD: 6	" son	ic co	ore b	oarr	el	SCREEN INTERVAL	(feet):	TOC ELE	EVATION (feet):
BOREHOLE DIAM	ETER: 6	" (0-1	15')				LOGGED BY: B. Johnson		REVIEW J. Klein	ED BY:
N H MR	%	SING	SS	Ę	SING		-	양국		
(feet) DEPTH (feet) RUN SAMPLE NUMBER	SAMPLE & RECOVERY DEPTH TO WATER	FRACTURING	HARDNESS	STRENGTH	WEATHERING	LITHOLOGIC DESCRIF	PTION	GEOLOGIC	RE	EMARKS
08:56 	See expla	nation s	heet fc	or des	criptic	POORLY GRADED SAND with GRAV (7.5YR 6/3), dry, ~60% fine to coarse subangular gravel (up to 1 inch in diar trace cobbles, loose, weak cementatic surface (0 to 0.5 ft), weak reaction with surface (0 to 0.5 ft), weak reaction with surface (0 to 0.5 ft) weak reaction with surface (0 to 0.5 ft). At 4.5 to 15 ft: soil is moist At 7 to 7.5 ft: boulder, brown (7.5YR 5 rock flour and rock fragments up to compare the surface of t	sand, ~35% neter), ~5% fines, on, organics (roots) at h HCl	WASTE ROCK	collected fr	ackfilled with hydrated thips from ground 15 ft bgs.
wood.	осо слріа			J. 463	o iput	and of the symbols.				SA18170340
										Page 1 of 1

PROJECT: ANA	CONDA CO County, N		R MINI	SITE	Log of Boring	No. V	WRSB-2	231	
_	tic Richfiel		pany		Monitoring We	Monitoring Well / Piezometer ID: NA			
BORING LOCATIO	N: OU	J-5 (So	uth W	aste Rock Area)			ING/EAST 34.83 N / 32	ING 26781.87 E	
DRILLING CONTR	ACTOR: Ca	scade	Drilling	ı, L.P.	DATE STARTED: 1/21/2020		DATE FIN 1/21/202	NISHED:	
DRILLING EQUIPM	MENT: Bo	art Lon	gyear	LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0	:	MEASUR Ground	ING POINT: surface	
DRILLING METHO	D: Soi	nic			DEPTH TO WATER (NA / NA	FIRST	/ COMPLE	TION):	
SAMPLING METH	OD: 6" :	sonic c	ore ba	rrel	SCREEN INTERVAL NA	(feet):	TOC ELE	VATION (feet):	
BOREHOLE DIAM	ETER: 6" ((0-15')			LOGGED BY: R. Klier		REVIEWI J. Klein	ED BY:	
Run 2 Run 1 (feet) Run 2 WRSB231_0.5-3 WRSB231_0.5-3 Run 4 (feet) Run 7 (feet) Run 8 (feet) Run 8 (feet) WRSB231_0.5-3 NUMBER NUMBER	SAMPLE & RECOVERY DEPTH TO WATER	` ,	STRENGTH WEATHERING	POORLY GRADED GRAVEL with S yellowish brown (2.5YR 6/4), moist, subangular to angular gravel (up to 2 and subangular to angular cobbles (diameter), ~45% fine to coarse sand cementation, contains trace organics with HCI	AND (GP): light ~55% fine to coarse 2.5 inches in diameter) up to 4 inches in I, loose, weak	WASTE ROCK WASTEROCK	RE Sample WF	EMARKS RSB231_0-0.5 om 0 to 0.5 ft bgs.	
13- 14- 14- 15- 16-15 16-15 16-16-16				Bottom of boring at 15 ft bgs				ackfilled with hydrated hips from ground 15 ft bgs.	
wood.	See explanat	tion sheet	for descr	ptions of codes and symbols.				Project No. SA18170340	
*** 55 6.								Page 1 of 1	

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	o. WRSB-2	32
CLIENT: Atlantic Richfield Company	Monitoring Well		
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) NC NA 15)RTHING/EASTII 539779.78 N / 32	
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: DATE FINISHED 1/17/2020 1/17/2020		
DRILLING EQUIPMENT: Prosonic 600C, truck-mounted rig	TOTAL DEPTH (feet): 15.0	MEASURI Ground s	NG POINT: urface
DRILLING METHOD: Sonic	DEPTH TO WATER (FI NA / NA	RST / COMPLET	ΓΙΟΝ):
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (fe	eet): TOC ELEV	/ATION (feet):
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: B. Johnson	REVIEWE J. Klein	D BY:
Number N	PTION /EL (SP): brown se sand, ~30% iameter), ~5% fines, on with HCl	REI Secured from the second se	MARKS SB232_0-0.5 m 0 to 0.5 ft bgs.
14- 15- Bottom of boring at 15 ft bgs	1		ips from ground
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340
			Page 1 of 1

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log	g of Boring No	o. WRSB-2	233
CLIENT: Atlantic Richfield Company	Мо	onitoring Well	/ Piezome	ter ID: NA
BORING LOCATION: OU-5 (South Waste Rock A	rea) ELE'		RTHING/EAST 39846.95 N / 3	
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DAT	TE STARTED: 24/2020	DATE FII 1/24/202	NISHED:
DRILLING EQUIPMENT: Boart Longyear LS600, trac	k-mounted rig	TAL DEPTH (feet): .0	MEASUR Ground	ING POINT: surface
DRILLING METHOD: Sonic	DEP	PTH TO WATER (FIF A / NA	RST / COMPLE	TION):
SAMPLING METHOD: 6" sonic core barrel	SCR NA	REEN INTERVAL (fe	et): TOC ELE NA	EVATION (feet):
BOREHOLE DIAMETER: 6" (0-15')		GGED BY: Klier	REVIEW J. Klein	ED BY:
brown (10 to subang cobbles (u sand, ~5% amount of \$\frac{9}{3} \frac{9}{3} \f	ERADED GRAVEL with SAND (0 'R 7/4), moist, ~50% fine to coar lar gravel (up to 2.5 inches in dia to 4 inches in diameter), ~45% nonplastic fines, weak cemental organics (roots), no reaction with the cocoarse subrounded to subang to coarse subrounded to subang	(SP): light et coarse sand, gular gravel (up	Sample Wi	RSB233_0-0.5 om 0 to 0.5 ft bgs.
13- 13- 14- 14- 14- 1828 82 14- 14- 14- 14- 14- 14- 14- 14- 14- 14-	diameter), ~5% nonplastic fines n, strong reaction with HCl	s, loose, weak		ackfilled with hydrated hips from ground 15 ft bgs.
15 09:32 Bottom of Bottom of See explanation sheet for descriptions of codes a			<u> </u>	Project No.
wood.				SA18170340
				Page 1 of 1

PROJECT: ANAC	ONDA COPPER County, Nevada		SITE	Log of Boring	No. V	WRSB-234
-	c Richfield Com			Monitoring We	II / Pi	iezometer ID: NA
BORING LOCATION	: OU-5 (So	uth Was	ste Rock Area)			ING/EASTING 76.70 N / 326728.96 E
DRILLING CONTRA	CTOR: Cascade	Drilling,	L.P.	DATE STARTED: DATE FINISHED: 1/23/2020 1/23/2020		DATE FINISHED:
DRILLING EQUIPME	ENT: Boart Lor	ngyear L	S600, track-mounted rig	TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface
DRILLING METHOD	Sonic			DEPTH TO WATER (I	FIRST	/ COMPLETION):
SAMPLING METHO	D: 6" sonic o	ore barr	el	SCREEN INTERVAL	(feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAME	TER: 6" (0-15')			LOGGED BY: R. Klier		REVIEWED BY: J. Klein
Run 2	ACAUTER STANLES STANLE	STRENGTH WEATHERING	POORLY GRADED SAND with CLAY (SP-SC): light yellowish brown (10YR to coarse sand, ~40% fine to coarse sto 2.5 inches in diameter) and subang inches in diameter), ~10% low plastic cementation, no reaction with HCl At 0 to 1 ft: trace organics (roots) At 3 ft: yellowish brown (10YR 5/6) At 6 ft: pale yellow (2.5Y 7/3), subang inches in diameter), no reaction with I	and GRAVEL 6/4), dry, ~50% fine subangular gravel (up gular cobbles (up to 4 ity fines, weak	WASTE ROCK GEOLOGIC MATERIAL	REMARKS Sample WRSB234_0-0.5 collected from 0 to 0.5 ft bgs.
11- 12- 13- 14- 14- 11:29 WKSB234 6-12			At 14.5 ft: yellowish brown (10YR 5/4) Bottom of boring at 15 ft bgs), no reaction with HCl		Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
15 11.23 >	See explanation sheet	for description	ons of codes and symbols.		1	Project No.
wood.			·			SA18170340
						Page 1 of 1

PROJECT: ANACOND Lyon Coun		SITE	Log of Boring N	lo. W	/RSB-235
1	chfield Company				ezometer ID: NA
BORING LOCATION:	OU-5 (South Was	te Rock Area)			NG/EASTING 3.41 N / 327478.33 E
DRILLING CONTRACTOR	R: Cascade Drilling,	L.P.			DATE FINISHED: 12/16/2019
DRILLING EQUIPMENT:	Boart Longyear LS	S600, track-mounted rig	TOTAL DEPTH (feet): MEASURING POINT: 15.0 Ground surface		
DRILLING METHOD:	Sonic		DEPTH TO WATER (F NA / NA	IRST /	COMPLETION):
SAMPLING METHOD:	6" sonic core barr	el	SCREEN INTERVAL (f	feet):	TOC ELEVATION (feet): NA
BOREHOLE DIAMETER:	6" (0-15')		LOGGED BY: R. Klier		REVIEWED BY: J. Klein
RSB235_3-6 WRSB235_0.5-3	MATER FRACTURING HARDNESS STRENGTH WEATHERING	POORLY GRADED SAND with GRAN brown (10YR 5/4), dry, ~60% fine to c subangular gravel (up to 3 inches in d nonplastic fines, loose, weak cements with HCI At 4 ft: ~60% fine to coarse sand, ~40 (up to 3 inches in diameter) and subar 7 inches in diameter)	/EL (SP): yellowish coarse sand, ~35% iameter), ~5% ation, weak reaction	GEOLOGIC	REMARKS Sample WRSB235_0-0.5 collected from 0 to 0.5 ft bgs. Rig chatter at 4 ft bgs.
6 14:28 ≥		At 11 ft: brown (10YR 5/3), trace fines		WASTE ROCK	Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.
See ex	xplanation sheet for description				Project No.
wood.					SA18170340
					Page 1 of 1

PROJECT: ANA	CONDA CO		IINE	SITE	Log of Boring	No. V	WRSB-2	<u> </u>
•	ntic Richfield		ny		Monitoring We	II / Pi	iezome	ter ID: NA
BORING LOCATION				ste Rock Area)	ELEVATION (feet) NA			ING 25113.76 E
DRILLING CONTR	ACTOR: Cas	cade Dril	lling,	L.P.	DATE STARTED: 1/20/2020	104014	DATE FII 1/20/202	NISHED:
DRILLING EQUIP				ruck-mounted rig	TOTAL DEPTH (feet)	:	MEASUR	RING POINT:
DRILLING METHO			, u	dok modified rig	15.0 DEPTH TO WATER (FIRST	Ground / COMPLE	
					NA / NA SCREEN INTERVAL			EVATION (feet):
SAMPLING METH	OD: 6" s	onic core	barr	-el	NA LOGGED BY:	(1001).	NA REVIEW	
BOREHOLE DIAM	ETER: 6" (0-15')			B. Johnson		J. Klein	ED B.I.:
Clear Clea			WEATHERING	POORLY GRADED SAND with GRA (7.5YR 5/3), dry, ~60% fine to coarse subangular gravel (up to 3 inches in loose, weak cementation, weak reach At 0.5 to 3 ft: cobbles (up to 5.5 incheboulder encountered)	VEL (SP): brown e sand, ~35% diameter), ~5% fines, tion with HCl	WASTE ROCK	RE Sample W	EMARKS RSB236_0-0.5 om 0 to 0.5 ft bgs.
14-15W				At 14 to 15 ft: cobbles (up to 5.5 inch	es in diameter)	†	bentonite o	ackfilled with hydrated
15	See explanation	on sheet for d	escripti	Bottom of boring at 15 ft bgs		1	surface to	Project No. SA18170340
wood.								Page 1 of 1

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring No. WRSB-237			
CLIENT: Atlantic Richfield Company	Monitoring Well / Piezometer ID: NA			
BORING LOCATION: OU-5 (South Waste Rock Area)	ELEVATION (feet) NORTHING/EASTING NA			
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/24/2020		OATE FINISHED: 1/24/2020	
DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig	TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface	
DRILLING METHOD: Sonic	DEPTH TO WATER (F NA / NA	IRST / C	COMPLETION):	
SAMPLING METHOD: 6" sonic core barrel			OC ELEVATION (feet): NA	
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: R. Klier	R	REVIEWED BY: J. Klein	
NOT THE CONTROL OF TH	PTION AND (GP): light gray see subrounded to a diameter) and ~45% fine to coarse mentation, trace VEL (SP): pale brown 1, ~35% fine to coarse a diameter), ~5%	WASTE ROCK MATERIAL ROCK	REMARKS Sample WRSB237_0-0.5 collected from 0 to 0.5 ft bgs.	
Bottom of boring at 15 ft bgs	-		entonite chips from ground urface to 15 ft bgs.	
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340	
			Page 1 of 1	

PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada			Log of Boring No. WRSB-238				
CLIENT: Atlantic Richfield Company			Monitoring Well / Piezometer ID: NA				
BORING LOCATION:	ON: OU-5 (South Waste Rock Area)			ELEVATION (feet) NA		ING/EASTI 00.12 N / 32	
DRILLING CONTRACTOR: Cascade Drilling, L.P.			DATE STARTED: 1/27/2020		DATE FINISHED: 1/27/2020		
DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig			TOTAL DEPTH (feet): 15.0		MEASURI Ground s	NG POINT: urface	
DRILLING METHOD:	Sonic			DEPTH TO WATER (NA / NA	FIRST	/ COMPLE	TION):
SAMPLING METHOD:	6" sonic c	ore barr	rel	SCREEN INTERVAL NA	(feet):	TOC ELE	VATION (feet):
BOREHOLE DIAMETEI	R: 6" (0-15')			LOGGED BY: R. Klier		REVIEWE J. Klein	D BY:
Clear Clea		STRENGTH WEATHERING	POORLY GRADED SAND with GRAV yellowish brown (10YR 6/4), dry, ~60° ~35% fine to coarse subrounded to st to 2.5 inches in diameter), ~5% nonpl cementation, blocky structure, strong At 2 ft: subangular cobbles (up to 4 in At 6 ft: light yellowish brown (2.5Y 6/4)	PTION /EL (SP): light % fine to coarse sand, ubangular gravel (up astic fines, weak reaction with HCI ches in diameter)	WASTE ROCK WASTERAL	RE Sample WR	MARKS SB238_0-0.5 m 0 to 0.5 ft bgs.
14- 88' 8728 888 888 888 15- 12:59			Bottom of boring at 15 ft bgs				ckfilled with hydrated hips from ground 5 ft bgs.
	e explanation sheet	for description	ions of codes and symbols.				Project No. SA18170340
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PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada			Log of Boring No. WRSB-239			
CLIENT: Atlantic Richfield Company			Monitoring Well / Piezometer ID: NA			
BORING LOCATION: OL	ON: OU-5 (South Waste Rock Area)				NG/EASTING 7.79 N / 325197.93 E	
DRILLING CONTRACTOR: Cascade Drilling, L.P.			NA 154058 DATE STARTED: 1/27/2020		DATE FINISHED: 1/27/2020	
DRILLING EQUIPMENT: Boart Longyear LS600, track-mounted rig			TOTAL DEPTH (feet): 15.0		MEASURING POINT: Ground surface	
DRILLING METHOD: So	onic		DEPTH TO WATER (F NA / NA	FIRST	/ COMPLETION):	
SAMPLING METHOD: 6"	rel	SCREEN INTERVAL (feet): NA		TOC ELEVATION (feet): NA		
BOREHOLE DIAMETER: 6"	DIAMETER: 6" (0-15')				REVIEWED BY: J. Klein	
Clark Clar	HARDNESS HARDNESS STRENGTH WEATHERING	POORLY GRADED SAND with GRAN (7.5YR 5/4), dry, ~55% fine to coarse subrounded to subangular grain diameter) and cobbles (up to 4.5 in ~5% nonplastic fines, medium dense, blocky structure, trace organics (roots HCI	/EL (SP): brown sand, ~40% fine to vel (up to 2.5 inches ches in diameter), weak cementation,	WASTE ROCK	REMARKS Sample WRSB239_0-0.5 collected from 0 to 0.5 ft bgs.	
14- 14- 88 87 88 87 88 88 88 88 88 88 88 88 88 8		Bottom of boring at 15 ft bgs	- - -	† 	Borehole backfilled with hydrated bentonite chips from ground surface to 15 ft bgs.	
15	ation sheet for descripti	ions of codes and symbols.			Project No. SA18170340	
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PROJECT: ANACONDA COPPER MINE SITE Lyon County, Nevada	Log of Boring N	lo. WRSB-	240	
CLIENT: Atlantic Richfield Company	Monitoring Well	l / Piezome	eter ID: NA	
BORING LOCATION: OU-5 (South Waste Rock Area)			HING/EASTING 142.15 N / 324662.92 E	
DRILLING CONTRACTOR: Cascade Drilling, L.P.	DATE STARTED: 1/21/2020		INISHED:	
DRILLING EQUIPMENT: Prosonic 600C, truck-mounted rig	TOTAL DEPTH (feet): 15.0		RING POINT: I surface	
DRILLING METHOD: Sonic	DEPTH TO WATER (F NA / NA	IRST / COMPL	ETION):	
SAMPLING METHOD: 6" sonic core barrel	SCREEN INTERVAL (f	feet): TOC EL NA	EVATION (feet):	
BOREHOLE DIAMETER: 6" (0-15')	LOGGED BY: B. Johnson	REVIEV J. Kleir	VED BY:	
Delty Graph State (1980) 1	IPTION VEL (SP): brown e sand, ~25% n diameter), ~5%	GEOLOGIC MATERIAL Saldmen	REMARKS VRSB240_0-0.5 from 0 to 0.5 ft bgs.	
Bottom of boring at 15 ft bgs	† 	bentonite	backfilled with hydrated chips from ground o 15 ft bgs.	
See explanation sheet for descriptions of codes and symbols.			Project No. SA18170340	
			Page 1 of 1	

Appendix 5C OU-5 2019-2020 Borehole Location Elevations

Anaconda Copper Mine Site Lyon County, Nevada

Borehole ID	Elevation ¹
WRSB-206	4661.84
WRSB-207	4649.87
WRSB-208	4570.66
WRSB-209	4646.01
WRSB-210	4648.65
WRSB-211	4615.21
WRSB-212	4663.15
WRSB-213	4662.25
WRSB-214	4664.01
WRSB-215	4660.59
WRSB-216	4653.92
WRSB-217	4575.12
WRSB-218	4533.33
WRSB-219	4672.89
WRSB-220	4670.70
WRSB-221	4650.60
WRSB-222	4649.34
WRSB-223	4665.33
WRSB-224	4638.01
WRSB-225	4647.49
WRSB-226	4719.95
WRSB-227	4654.87
WRSB-228	4658.01
WRSB-229	4457.40
WRSB-230	4718.57
WRSB-231	4644.91
WRSB-232	4694.79
WRSB-233	4618.32
WRSB-234	4629.95
WRSB-235	4512.20
WRSB-236	4612.01
WRSB-237	4576.94
WRSB-238	4554.01
WRSB-239	4610.44
WRSB-240	4590.60

Note:

1. Datum are in NGVD 29 projection and elevations approximated from current topographic surface